2010 – 2011 Graduate Catalog

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Please refer to the Undergraduate Admissions page at uwf.edu/admissions and the Undergraduate Catalog at http://uwf.edu/catalog/cat2010/index.cfm for information and policies pertaining to Undergraduate students.

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Modified 07/21/2010

University of West Florida



The Chambered Nautilus

Build thee more stately mansions, O my soul,
As the swift seasons roll!
Leave thy low-vaulted past!
Let each new temple, nobler than the last,
Shut thee from heaven with a dome more vast,
Till thou at length art free,
Leaving thine outgrown shell by life's unresting sea!

Oliver Wendell Holmes' poem selected by Harold Bryan Crosby, the founding president of The University of West Florida, inspired the university seal. The University's colors, blue and green, symbolize the sky and the sea, the vast knowledge that humankind has explored and the future yet to be conquered.

The Alma Mater

Where learning's light sends forth its beam
Through darkness of our youth,
There you, West Florida, home of dreams
Prepare the way of truth.
You guide us toward tomorrow's shore
With knowledge of our past;
Your power in us rests secure,
And evermore will last.
Your stately mansions were our home
Where minds and hearts are free
And though we may far from you roam,
We'll always honor thee.

Composer: Lynn Lauderdale, D.M.A.
Lyricist: A. Michael Yots, Ph.D.

Welcome

The main campus, with 1,600 acres of rolling hills and natural woodland along the Escambia River, is ten miles north of downtown Pensacola. Its facilities have been designed to complement the natural forest and waterways. In addition, the University of West Florida has waterfront property on Santa Rosa Island that is available for recreational, academic, and research pursuits. The University operates the Emerald Coast Campus which includes the Joint NWFSC/UWF Campus, Eglin AFB Center, W.E. Combs Campus, Research and Engineering Education Facility (REEF), Hurlburt Field office, and other locations. UWF also manages 22 historic properties in downtown Pensacola.

In 1963, the Florida Legislature authorized funds to establish the University of West Florida. The first president, Dr. Harold B. Crosby, assumed office in July 1964. Ground was broken on April 16, 1965, and the first students began classes in the fall of 1967. Dr. James A. Robinson, the second president, took office in 1974. Dr. Morris L. Marx was inaugurated as UWF's third president in 1988; Dr. John C. Cavanaugh was appointed as the fourth president on July 15, 2002. Dr. Judith A. Bense currently serves as president and was appointed on July 1, 2008. A 13-member Board of Trustees governs the University.

Currently, UWF enrolls more than 11,200 students in its College of Arts and Sciences, College of Business, and College of Professional Studies, and has conferred more than 74,925 associate, bachelor's, master's, specialist, and doctoral degrees.

The UWF Welcome Center provides maps, parking permits, and information about facilities and campus events. Located at the east entrance to the campus, it has a drive-through window for automotive traffic and a lobby for walk-in visitors. Information concerning campus tours may be obtained from the Office of Undergraduate Admissions at (850) 474-2230 or 1-800-263-1074. Information about off-campus locations can be obtained by calling UWF Emerald Coast at (850) 863-6569.

More information about the University of West Florida and its programs is available on the Internet through the UWF Home Page at uwf.edu.

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This Catalog represents the current curricula, educational plans, and requirements of the University of West Florida at the time the text in the Catalog was prepared. The provisions of the Catalog do not constitute an offer for a contract that may be accepted by students through registration and enrollment in the University. In accordance with the University, UWF Board of Trustees, Florida Board of Governors, and Florida legislative mandates, the University must reserve the right to change any provision, offering, or requirement at any time within the student's period of study at the University. Students should be aware that admission to the University or registration for a given semester does not necessarily guarantee the availability of a course at any specific time, but every effort will be made to meet each student's curricular needs. Students are ultimately responsible for adhering to the requirements for courses and degrees offered by the University by obtaining current information about those courses and degree programs.

The University of West Florida is an Equal Opportunity/Affirmative Action Institution. The University is committed to the principles of equal opportunity. Programs, activities, services, and all terms and conditions of employment of the University are offered with equal access to all persons without regard to race, color, ethnicity, religion, gender, sexual orientation, age, national origin, or disability.

Persons with a disability requiring reasonable accommodation should contact the Student Disability Resource Center in Building 21, at least five working days in advance to make appropriate arrangements. Persons with hearing or speech impairments should use the Florida Dual Party Relay System at 1-800-955-8770 (voice).

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TELEPHONE DIRECTORY

(Area Code 850)

Information	
Pensacola Campus	474-3000
Emerald Coast Campuses	863-6569
Admissions (Graduate)	474-7713
Aquatics Center	474-2497
Athletics	474-3003
Bookstore	Toll-free 1-800-605-2259 or 474-2150
Emerald Coast Bookstore	863-0760
Career Services (Cooperative Education, Off Campus Student Employment & Volunteer UWF)	474-2254
Emerald Coast Career Services	833-3743
Cashier	474-3110
Emerald Coast Cashier	863-6568
Child Care Center (ERCCD)	474-2195
College Deans	
Arts & Sciences	474-2688
Business	474-2348
Professional Studies	474-2769
Counseling Center	474-2420
Dining Services	474-3198
Disabled Student Services (Voice or TDD)	474-2387
Diversity & International Programs	474-2479
International Student Advisor	474-2386
Emergency	474-2911
Financial Aid	474-2400
Finance and Accounting Services	474-3027
Student Accounts/Financial Aid Disbursement	474-3037
Tuition and Fees	474-3110
Graduate School	474-7713
Health Center (Immunizations)	474-2172
Housing (Residence Halls and Village Apartments)	474-2463
Information Center	474-3000
Information Technology Services Help Desk	474-2075
Labs	
Math	474-2622
Writing Skills	474-2029
Library	474-2424
Multicultural Support Services	474-2698
Nautilus Card Office	474-3324
Orientation	474-2384
Emerald Coast Orientation	863-6569
Police……	474-2415
Recreation	474-2586
Registrar	474-2244
Records, Registration	474-2244
Transcripts	474-3370
Scholarships	
Merit-Based (Admissions)	474-2230
Need-Based (Financial Aid Office)	474-2400
Student Activities	474-2406
Student Affairs	474-2214
Emerald Coast Student Services	863-6569
Student Employment (OPS)	474-2608
Student Government Association	474-2393
Student Success	474-3266
Teacher Certification	474-2893/3263
Teacher Education Student Support	474-2893
Testing	473-7340
Computer-based Test Center	473-7339
University Advising Center	474-3170
Emerald Coast Advising	863-6569
Veterans Services	474-2240

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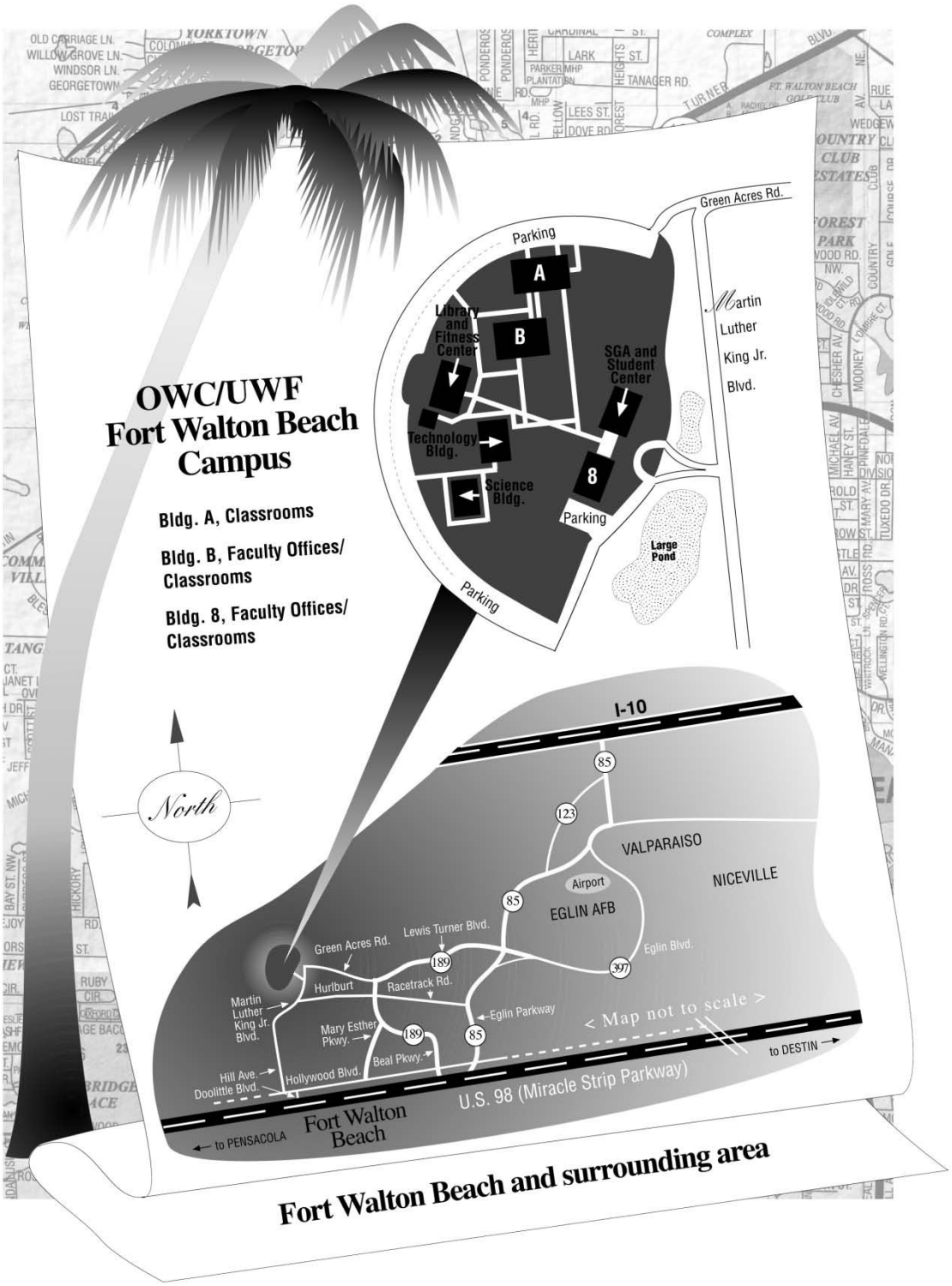
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Faculty Emeriti

http://uwf.edu/academic/awards/emeritus/emeritus.cfm

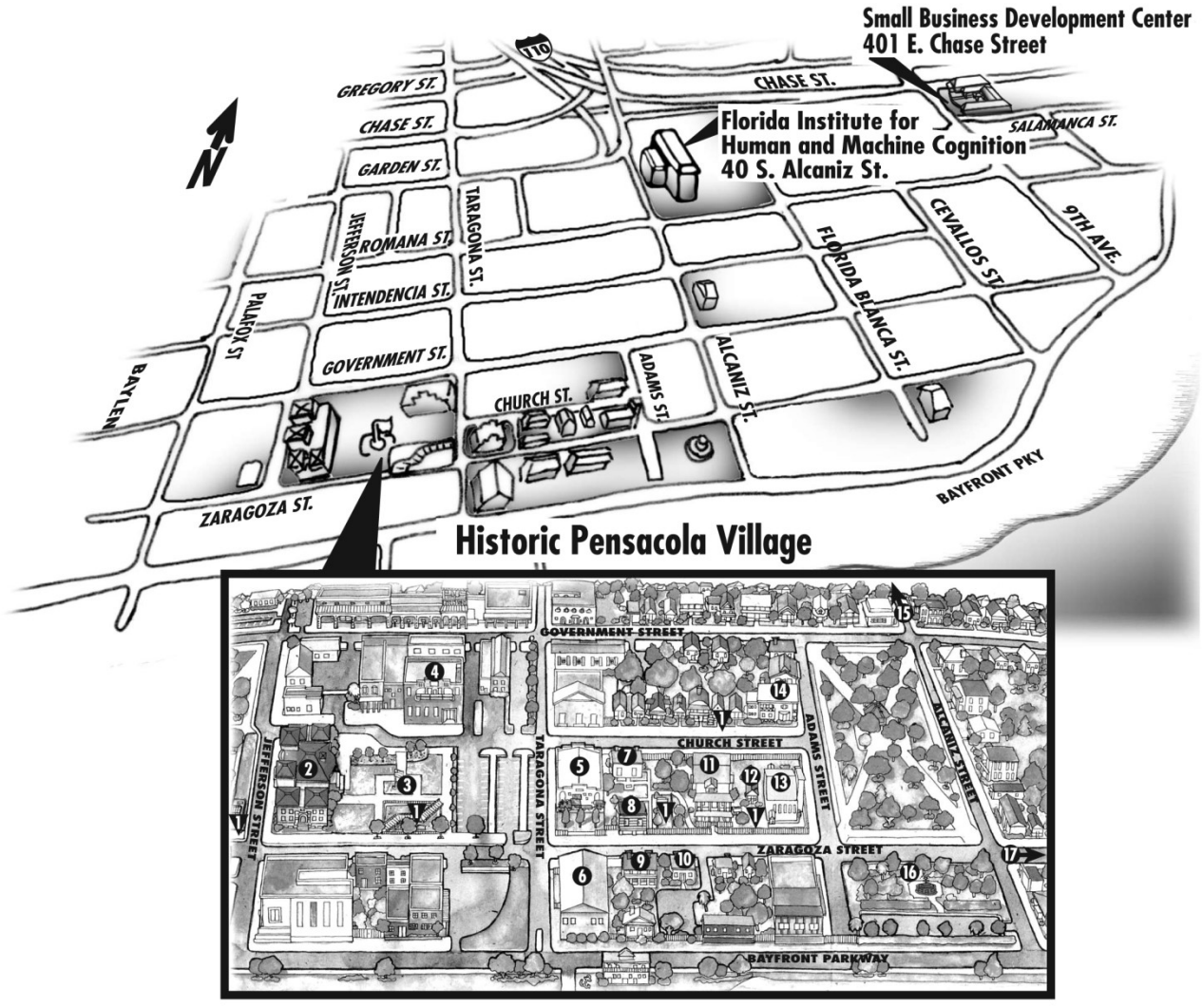
CAMPUS MAPS

http://uwf.edu/uwfmain/campusmap/



University of West Florida

Downtown Pensacola Campus



- V Colonial Archaeological Trails
- ❷ T.T. Wentworth, Jr. Florida State Museum
- ❸ Jackson Park
- ❹ J. Earle Bowden Building
- ❺ Museum of Industry
- ❻ Museum of Commerce
- ❼ Lavalle House
- ❽ Julee Cottage
- ❾ Tivoli House
- ❿ The Weaver's Cottage
- ⓫ Lear-Rocheblave House
- ⓬ John Pfeiffer House
- ⓭ Old Christ Church
- ⓮ Dorr House
- ⓯ Quina House
- ⓰ Fountain Park
- ⓱ Barkley House

ACADEMIC CALENDARS

2010/2011

	FALL 2010 A TERM 8/23/10-12/03/10	SPRING 2011 A TERM 1/5/11-4/29/11	SUMMER 2011 A TERM 5/9/11-8/5/11
ACADEMIC DATES & DEADLINES			
Advance Registration for currently enrolled degree-seeking students by current classification	3/29 - 4/4	11/15 - 11/21	3/21 - 3/27
Open Registration for currently enrolled, new transfer, or readmitted degree students (new under-graduate students should contact the Office of Student Transition for orientation/registration dates)	4/5 - 8/1	11/22 - 12/5	3/28 - 4/17
Regular Registration (non-degree and all other categories)	8/2 - 8/22	12/6/10- 1/4/11	4/18 - 5/8
Registration for senior citizens with waivers	8/23 - 8/27	1/5- 1/12	5/9 - 5/13
Late Registration ($100 late registration fee)	8/23 - 8/27	1/5- 1/12	5/9 - 5/13
Registration for state employees with waivers	8/23 - 8/27	1/5- 1/12	5/9 - 5/13
Drop/Add Period	8/23 - 8/27	1/5- 1/12	5/9 - 5/13
First Day of Classes	8/23	1/5	5/9
Letter grade to pass-fail or audit deadline	8/27	1/12	5/13
Graduation application deadline (including A.A. and completion of minor)	Fall 2010 - 5/14/2010	Spring 2011- 8/27/2010	Summer 2011 1/12/2011
Cancellation of Audit (to letter grade) deadline	9/17	2/2	6/3
Withdrawal deadline from all courses for term with partial refund; automatic grade of "WR"	9/17	2/2	6/3
Submission deadlines for master's thesis and doctoral dissertation	Contact Graduate School -uwf.edu/graduate		
Withdrawal deadline from individual course or all courses for term; automatic grade of "W" (no individual course withdrawals after this date)	10/29	3/23	7/8
Cancellation of Pass-Fail (to letter grade) deadline	10/29	3/23	7/8
Withdrawal deadline from all courses for term; "W" or "WF" at instructor's discretion	12/3	4/22	8/5
Grade Forgiveness form deadline	12/10	4/29	8/5
Removal of "I" (incomplete grade) deadline from previous semester	12/3	4/22	8/5
Last Day of Classes	12/3	4/22	8/5
Final Examinations	12/6 - 12/10	4/25 - 4/29	scheduled by instructor
Commencement	12/11	4/30	N/A
Semester grades due @ 9:00 a.m.	12/14	5/3	8/9
OTHER IMPORTANT DATES AND DEADLINES			
Undergraduate student admission application deadline (U.S. and International students)	7/1	11/1	4/1
U.S. Graduate student admission application deadline (U.S. and International students)	6/1	10/1	3/1
Readmission and non-degree student application deadline	8/9	1/3	5/2
Deadline for qualification and submission of all documentation to change residency status	8/16	1/3	5/2
Fees due ($100 late charge if fees not paid by this date)/Last day to receive full refund of fees	8/27	1/12	5/13
HOLIDAYS (classes suspended)			
Labor Day –9/6/2010 Veteran's Day –11/11/2010	Thanksgiving Holidays –11/25/10-11/26/10	Martin Luther King Jr. Day –1/17/2011	
Spring Vacation -3/14/11-3/18/11	Memorial Day - 5/30/2011	Independence Day – 7/4/2011	

Contact Registrar's Office for "E" Term deadlines.

FALL SEMESTER 2010

	TERM A 8/23-12/03	TERM B 8/23-10/8	TERM C 10/13-12/3
ACADEMIC DATES & DEADLINES			
Advance Registration for currently enrolled degree-seeking students by current classification	3/29 - 4/4		
Open Registration for currently enrolled, new transfer, or readmitted degree students (new under-graduate students should contact the Office of Student Transition for orientation/registration dates)	4/5 - 8/1	4/5 - 8/1	4/5 - 9/28
Regular Registration (non-degree and all other categories)	8/2 - 8/22	8/2 - 8/22	9/29 - 10/12
Registration for senior citizens with waivers	8/23 - 8/27	8/23 - 8/27	10/13-10/20
Late Registration ($100 late registration fee)	8/23 - 8/27	8/23 - 8/27	10/13-10/20
Registration for state employees with waivers	8/23 - 8/27	8/23 - 8/27	10/13-10/20
Drop/Add Period	8/23 - 8/27	8/23 - 8/27	10/13-10/20
First Day of Classes	8/23	8/23	10/13
Letter grade to pass-fail or audit deadline	8/27	8/27	10/20
Graduation application deadline (including A.A. and completion of minor)	Fall 2010 - 5/14/2010		
Cancellation of Audit (to letter grade) deadline	9/17	9/3	10/26
Withdrawal deadline from all courses for term with partial refund; automatic grade of "WR"	9/17	9/3	10/26
Submission deadlines for master's thesis and doctoral dissertation	Contact Graduate School -uwf.edu/graduate		
Withdrawal deadline from individual course or all courses for term; automatic grade of "W" (no individual course withdrawals after this date)	10/29	9/22	11/15
Cancellation of Pass-Fail (to letter grade) deadline	10/29	9/22	11/15
Withdrawal deadline from all courses for term; "W" or "WF" at instructor's discretion	12/3	10/8	12/3
Grade Forgiveness form deadline	12/10		
Removal of "I" (incomplete grade) deadline from previous semester	12/3		
Last Day of Classes	12/3	10/8	12/3
Final Examinations	12/6 - 12/10	scheduled by instructor	
Commencement	12/11		
Semester grades due @ 9:00 a.m.	12/14		
OTHER IMPORTANT DATES AND DEADLINES			
Undergraduate student admission application deadline (U.S. and International students)	6/30		
Graduate student admission application deadline (U.S. and International students)	6/1		
Readmission and non-degree student deadline	8/9	8/9	8/9
Deadline for qualification and submission of all documentation to change residency status (Term C deadline applies to students not attending Term A or B)	8/16	8/16	10/6
Fees due ($100 late charge if fees not paid by this date)/Last day to receive full refund of fees	8/27	8/27	10/20
HOLIDAYS (classes suspended)			
Labor Day – 9/6/2010 Veteran's Day – 11/11/2010 Thanksgiving Holidays – 11/25/10-11/26/10			

AUGUST 2010

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 2010

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

OCTOBER 2010

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

NOVEMBER 2010

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

DECEMBER 2010

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

SPRING SEMESTER 2011

	TERM A 1/5 - 4/29	TERM B 1/5 - 2/22	TERM C 2/28 - 4/22
ACADEMIC DATES & DEADLINES			
Advance Registration for currently enrolled degree-seeking students by current classification	11/15 – 11/21		
Open Registration for currently enrolled, new transfer, or readmitted degree students (new under-graduate students should contact the Office of Student Transition for orientation/registration dates)	11/22/10-12/5/10	11/22/10-12/5/10	11/22/10-2/13/11
Regular Registration (non-degree and all other categories)	12/6-1/4	12/6-1/4	2/14-2/27
Registration for senior citizens with waivers	1/5-1/12	1/5-1/12	2/28-3/4
Late Registration ($100 late registration fee)	1/5-1/12	1/5-1/12	2/28-3/4
Registration for state employees with waivers	1/5-1/12	1/5-1/12	2/28-3/4
Drop/Add Period	1/5-1/12	1/5-1/12	2/28-3/4
First Day of Classes	1/5	1/5	2/28
Letter grade to pass-fail or audit deadline	1/12	1/12	3/4
Graduation application deadline (including A.A. and completion of minor)	Spring 2011 – 8/27/2010		
Cancellation of Audit (to letter grade) deadline	2/2	1/19	3/11
Withdrawal deadline from all courses for term with partial refund; automatic grade of "WR"	2/2	1/19	3/11
Submission deadlines for master's thesis and doctoral dissertation	Contact Graduate School -uwf.edu/graduate		
Withdrawal deadline from individual course or all courses for term; automatic grade of "W" (no individual course withdrawals after this date)	3/23	2/7	4/6
Cancellation of Pass-Fail (to letter grade) deadline	3/23	2/7	4/6
Withdrawal deadline from all courses for term; "W" or "WF" at instructor's discretion	4/22	2/22	4/22
Grade Forgiveness form deadline	4/29		
Removal of "I" (incomplete grade) deadline from previous semester	4/22		
Last Day of Classes	4/22	2/22	4/22
Final Examinations	4/25 – 4/29	Scheduled by instructor	
Commencement	4/30		
Semester grades due @ 9:00 a.m.	5/3		
OTHER IMPORTANT DATES & DEADLINES			
Undergraduate student admission application deadline (U.S. and International students)	11/1		
Graduate student admission application deadline (U.S. and International students)	10/1		
Readmission and non-degree student application deadline	1/3	1/3	1/3
Deadline for qualification and submission of all documentation to change residency status (Term C deadline applies to students not attending Term A or B)	1/3	1/3	2/21
Fees due ($100 late charge if fees not paid by this date)/Last day to receive full refund of fees	1/12	1/12	3/4

HOLIDAYS (classes suspended)
Martin Luther King's Birthday 1/17/2011
Spring Vacation 3/14/11 – 3/18/11

JANUARY 2011

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

FEBRUARY 2011

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

MARCH 2011

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

APRIL 2011

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

University of West Florida

SUMMER SEMESTER 2011

	TERM A (13 weeks) 5/9 - 8/5	TERM B (6 weeks) 5/9 - 6/21	TERM C (6 weeks) 6/22 - 8/5	TERM D (8 weeks) 6/13 - 8/5)
ACADEMIC DATES & DEADLINES				
Advance Registration for currently enrolled degree-seeking students by current classification	3/21 - 3/27			
Open Registration for currently enrolled, new transfer, or readmitted degree students (new undergraduate students should contact the Office of Student Transition for orientation/registration dates)	3/28 - 4/17	3/28 - 4/17	3/28-6/6	3/28 -5/27
Regular Registration (non-degree and all other categories)	4/18 - 5/8	4/18- 5/8	6/7 - 6/21	5/28- 6/12
Registration for senior citizens with waivers	5/9 - 5/13	5/9 - 5/13	6/22- 6/29	6/13- 6/17
Late Registration ($100 late registration fee)	5/9 - 5/13	5/9 - 5/13	6/22- 6/29	6/13- 6/17
Registration for state employees with waivers	5/9 - 5/13	5/9 - 5/13	6/22- 6/29	6/13- 6/17
Drop/Add Period	5/9 - 5/13	5/9 - 5/13	6/22- 6/29	6/13- 6/17
First Day of Classes	5/9	5/9	6/22	6/13
Letter grade to pass-fail or audit deadline	5/13	5/13	6/29	6/17
Graduation application deadline (including A.A. and completion of minor)	Summer 2010 - 1/12/11			
Cancellation of Audit (to letter grade) deadline	6/3	5/20	7/6	7/1
Withdrawal deadline from all courses for term with partial refund; automatic grade of "WR"	6/3	5/20	7/6	7/1
Submission deadlines for master's thesis and doctoral dissertation	Contact Graduate School -uwf.edu/graduate			
Withdrawal deadline from individual course or all courses for term; automatic grade of "W" (no individual course withdrawals after this date)	7/8	6/8	7/22	7/21
Cancellation of Pass-Fail (to letter grade) deadline	7/8	6/8	7/22	7/21
Withdrawal deadline from all courses for term; "W" or "WF" at instructor's discretion	8/5	6/21	8/5	8/5
Grade Forgiveness form deadline	8/5			
Removal of "I" (incomplete grade) deadline from previous semester	8/5			
Last Day of Classes	8/5	6/21	8/5	8/5
Final Examinations	Scheduled by instructor			
Semester grades due @ 9:00 a.m.	8/9	6/28	8/9	8/9
OTHER IMPORTANT DATES AND DEADLINES				
Undergraduate student admissions application deadline (U.S. and International students)	4/1			
Graduate student admissions application deadline (U.S. and International students)	3/1			
Readmission and non-degree student deadline	5/2	5/2	5/2	5/2
Deadline for qualification and submission of all documentation to change residency status (Terms C&D deadline applies to students not attending other terms)	5/2	5/2	6/15	6/6
Fees due ($100 late charge if fees not paid by this date)/Last day to receive full refund of fees	5/13	5/13	6/29	6/17
HOLIDAYS (classes suspended)				
Memorial Day – 5/30/2011 Independence Day – 7/4/2011				

MAY 2011

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JUNE 2011

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY 2011

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST 2011

Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

UNIVERSITY VISION, MISSION, AND VALUES

OUR VISION

To be the best regional comprehensive university in America.

OUR MISSION

To empower each individual we serve with knowledge and opportunity to contribute responsibly and creatively to a complex world.

OUR VALUES

Caring
Providing a safe and dynamic learning environment that encourages the development of individual potential

Integrity
Doing the right things for the right reasons

Quality
Dedication to uncompromising excellence

Innovation
Dedication to exploring and expanding the boundaries of knowledge

Teamwork
Working together to achieve shared goals

Stewardship
Managing and protecting our resources

Courage
Daring to be different by design

OUR STANDARDS OF EXCELLENCE

Ambassadorship, Communications, Courtesy, Flexibility, Helpfulness, Knowledge, Ownership, Professionalism, Responsiveness, and Safety

OUR STRATEGIC PRIORITIES

Inspire and achieve the highest levels of student learning, creativity, and success

Attract, engage, and retain the most talented and diverse students, faculty, and staff

Create and deliver the highest quality educational, research, and service programs that meet the needs of the communities we serve

Provide excellent educational, student, and administrative support services and facilities

Create and manage purposeful and sustainable growth

GRADUATE ACCREDITATIONS

The University of West Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award Master's, specialist, and Doctor of Education degrees. Individuals who wish to contact the Commission on Colleges pertaining to the accreditation status of the University may write the Commission at 1886 Southern Lane, Decatur, Georgia 30033-4097, or call (404) 679-4501. In addition, specific colleges and programs are nationally accredited by the agencies indicated below.

The School of Education at UWF is accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Ave., NW, Suite 500, Washington, DC 20036, phone (202) 466-7496. This accreditation covers (initial teacher preparation programs and/or advanced educator) preparation programs. NCATE is recognized by the U.S. Department of Education and the Council for Higher Education Accreditation to accredit programs for the preparation of teachers and other professional school personnel.

Teacher and school administrator preparation programs have also been reviewed and approved by the Florida Department of Education.

UWF Colleges and Programs	Accrediting Agency	Level of Degree
Biology	Council on Education for Public Health (CEPH)	M.P.H.
College of Business	The Association to Advance Collegiate Schools of Business (AACSB International)	M.Acc., M.B.A
College of Professional Studies (All Professional Education and Teacher Education Programs)	National Council for Accreditation of Teacher Education (NCATE)	M.A., M.Ed., Ed.S., Ed.D
Psychology (Counseling & Industrial Organizational Programs)	Master's in Psychology Accreditation Council (MPAC)	M.A.
Social Work	Council on Social Work Education	M.S.W (In Candidacy)

GRADUATE DEGREES AND AREAS OF SPECIALIZATION

For information on UNDERGRADUATE DEGREES see the Undergraduate Catalog

UWF AWARDS THE FOLLOWING GRADUATE DEGREES:

MASTER'S DEGREES

M.A. Master of Arts
M.Acc. Master of Accountancy
M.A.T. Master of Arts in Teaching
M.B.A. Master of Business Administration
M.Ed. Master of Education
M.P.H. Master of Public Health
M.S. Master of Science
M.S.A. Master of Science in Administration
*M.S.N. Master of Science in Nursing
M.S.T. Master of Science in Teaching
M.S.W. Master of Science in Social Work

*Pending SACS approval

SPECIALIST DEGREE

Ed.S. Specialist in Education

DOCTORAL DEGREE
Ed.D. Doctor of Education

GRADUATE DEGREE PROGRAMS AND SPECIALIZATIONS OFFERED BY UWF INCLUDE:

MASTER'S DEGREES

Accountancy, M.Acc.
- Professional Accountancy
- Taxation

Administration, M.S.A.
- Acquisition & Contract Administration
- Biomedical/Pharmaceutical
- Database Administration
- Healthcare Administration
- Human Performance Technology
- Leadership
- Nursing Administration
- Public Administration
- Software Engineering Administration

Anthropology, M.A.
- Anthropology
- Historical Archaeology

Biology, M.S., M.S.T.
- Biology, M.S.
- Biology M.S. Fast Track
- Biological Chemistry, M.S. Fast Track
- Biotech M.S. Fast Track
- Coastal Zone Studies, M.S.
- Environmental Biology, M.S.
- Post-Secondary Teaching, M.S.T.

Business Administration, M.B.A.

College Student Personnel Administration, M.Ed.

Communication Arts, M.A.
- Strategic Communication and Leadership

Community Health Education, M.S.
- Aging Studies
- Health Promotion and Worksite Wellness
- Psycho-Social

Computer Science, M.S.
- Computer Science
- Database Systems
- Software Engineering

Criminal Justice, M.S.

Curriculum & Instruction, M.Ed.
- Elementary Education Comprehensive
- Middle Level Education Comprehensive
- Primary Education Comprehensive
- Secondary Education Comprehensive

Educational Leadership, M.Ed.
- Educational Leadership Certification

Education and Training Management (ETMS)
ETMS-Human Performance Technology Subspecialty
ETMS-Instructional Technology Subspecialty
English, M.A.
Creative Writing
Literature
Environmental Science, M.S.
Exceptional Student Education, M.A.
Exceptional Student Education Comprehensive
Health, Leisure & Exercise Science, M.S.
Exercise Science
Physical Education
History, M.A.
History
Military History
Public History
Instructional Technology, M.Ed.
Mathematics, M.S.
*Nursing, M.S.N.
Administration
Education
Political Science, M.A.
Political Science
Public Administration
Security and Diplomacy

*pending SACS approval

CERTIFICATE PROGRAMS – Credit Bearing

(Contact Department for Specific Requirements)
VA = VA Certified Programs
Alternative Certification Program (Teacher Education) VA
Alternative Education (Teacher Education)
Cognitive Psychology (Psychology)
Entrepreneurship (MBA)
Evolutionary Biology (Biology)
Fisheries and Aquaculture (Biology)
Geographic Information Science (Environmental Studies)
Health Care Ethics (Biology)
Health Communication Leadership (Communication Arts)
Health Psychology (Psychology)
Health Psychology (Psychology)
Historic Preservation Studies (History)
Human Performance Technology (Electrical and Computer Technology) VA
Legal Studies (Criminal Justice & Legal Studies)
Medical Informatics (School of Allied Health and Life Sciences) VA
Organizational Development Leadership (Business-MBA)
Plant Science (Biology) VA
Professional Accountancy (Accounting) VA
Public Health: Emergency Management (Biology) VA
Public Health: Environmental Health (Biology) VA
Public Health: Infection Control (Biology) VA
Public Health: Occupational Safety and Health (Biology) VA
Teacher Ready (Teacher Education) VA

Psychology, M.A.
Counseling
Counseling - Licensed Mental Health Counselor
General
Industrial-Organizational
Public Health, M.P.H.
Reading, M.Ed.
Social Work, M.S.W.

EDUCATIONAL SPECIALIST DEGREES

Curriculum & Instruction, Ed.S.
Educational Leadership, Ed.S.

DOCTORAL DEGREES

Curriculum & Instruction, Ed.D.
Administrative Studies
Curriculum & Diversity Studies
Instructional Technology
Physical Education and Health Sciences & Social Sciences
Teacher Education

DEGREES AVAILABLE AT THE EMERALD COAST CAMPUSES:

Also refer to programs offered through the On-Line Campus

MASTER'S DEGREEs
Business Administration, M.B.A.
Computer Science, M.S.
    Software Engineering
Criminal Justice, M.S.
Educational Leadership, M.Ed.
  Educational Leadership (Certification)
  Education and Training Management (ETMS)
  Education and Training Management (ETMS) – Human Performance Technology Subspeciality
  Education and Training Management (ETMS) – Instructional Technology Subspeciality

EDUCATIONAL SPECIALIST DEGREES
*Curriculum & Instruction, Ed.S.
Educational Leadership, Ed.S

*Students who wish to pursue their degree full time will have to take classes periodically in Pensacola.

DOCTORAL DEGREE
*Curriculum & Instruction, Ed.D.
  Administrative Studies
  Curriculum & Diversity Studies
  Instructional Technology

*Students who wish to pursue their degree full time will have to take classes periodically in Pensacola.

MAJORS AVAILABLE AT THE UWF ONLINE CAMPUS:

MASTER'S DEGREES
Administration, M.S.A.
  Acquisition and Contract Management
  Biomedical/Pharmaceutical
  Database Administration
  Health Care Administration
  Human Performance Technology
  Leadership
  Nursing Administration
  Public Administration
  Software Engineering

Computer Science, M.S.
  Computer Science
  Database Systems
  Software Engineering

Curriculum & Instruction, M.Ed.
  Elementary Education Comprehensive
  Middle Level Education Comprehensive
  Primary Education Comprehensive
  Secondary Education Comprehensive

Educational Leadership, M.Ed.
- Education and Training Management (ETMS)
- Education and Training Management (ETMS) – Human Performance Technology
- Education and Training Management (ETMS) – Instructional Technology

Exceptional Student Education, M.A.

Instructional Technology, M.Ed.

Mathematics, M.S.

Public Health, M.P.H.

CERTIFICATE PROGRAMS – Credit Bearing – Online
(Contact Department for Specific Requirements)
VA = VA Certified Programs

Geographic Information Science (Environmental Studies)
Human Performance Technology (Electrical and Computer Technology) VA
Medical Informatics (School of Allied Health and Life Sciences) VA
Professional Accountancy (Accounting) VA
Public Health: Emergency Management (Biology) VA
Public Health: Environmental Health (Biology) VA
Public Health: Infection Control (Biology) VA
Public Health: Occupational Safety and Health (Biology) VA
Teacher Ready (Teacher Education) VA

GRADUATE ADMISSIONS

The Graduate School administers the application, admission, and readmission process for all degree-seeking and non-degree graduate students. It also assists prospective graduate students in obtaining information about UWF.

GENERAL POLICIES

The University of West Florida encourages applications for admission from qualified students regardless of gender, culture, religion, ethnic background, age, marital status, or disability. Students with documented visual impairments, hearing impairments, motor impairments, or specific learning disabilities may petition for substitution of admission requirements provided such substitution does not significantly alter the nature of the program for which admission is being sought. For more information about the University's admission requirement substitution policy, contact the Graduate School.

Admission of students to the University of West Florida is within the jurisdiction of the University, but subject to the minimum standards adopted by the UWF Board of Trustees and the Florida Board of Governors.

Conditions of Admission

The Graduate School will notify the applicants of the admission decision. Admission to the University is often contingent upon the subsequent receipt of satisfactory and official college or university transcripts and verification of baccalaureate degrees. Failure to submit such documents before the end of the second week of class of the initial academic semester may result in the cancellation of admission.

Ownership of Submitted Documents

All credentials and documents submitted become the property of the University of West Florida. The originals or copies of the originals will not be returned to the applicant or forwarded to another institution, agency, or person.

Fraudulent Records

If it is found that an applicant has made a false or fraudulent statement or a deliberate omission on the application for admission, the residency statement, or any other accompanying documents or statements, the applicant may be denied admission. If the student is already enrolled when the fraud is discovered, the case will be adjudicated using the procedures specified for violations of the UWF Student Conduct System as contained in the *Student Planner and Handbook* at thezonelive.com/zone/public/6/ schoolHome.asp?i=12706.

Request for Admission for a Later Semester

Applicants are admitted to the University only for the semester for which they apply. Students who do not enroll in the semester for which they have been admitted and want consideration for a different semester must reapply for admission. Applicants will be considered for admission under the policies in effect at that time. Admission is not automatic. If a student has attended another collegiate institution prior to updating the application, the student must provide an official transcript of all work attempted.

Required Documents

Applicants for graduate admission must provide the Graduate School with the following documents:

Application for Admission

Students must apply for graduate level admission online. All UWF applications are available online. Follow instructions from the UWF Home Page, uwf.edu, and click on Admissions. The international application may be printed from the same website. The application for admission and a nonrefundable $30 processing fee payable to the University of West Florida should be submitted six to nine months prior to the semester for which admission is requested. It is the policy of the University not to defer or waive the application processing fee. The application processing fee must be in U.S. currency, drawn on a U.S. bank. There is an option to pay via MasterCard, Visa, or American Express credit card when the web application is submitted.

College Transcripts

Applicants must submit one official transcript from each college and university attended to the Graduate School. Students who received their undergraduate degree from UWF do not need to provide UWF transcripts. Transcripts are considered official when they are sent from a college or university directly to the Graduate School and bear an official seal and signature. Transcripts bearing the statement "Issued to Student," faxed transcripts, or transcripts submitted by the applicants are not considered official. Original documents or signed, officially certified photocopies of original documents may be submitted by the student only when institutions outside the U.S. will not send academic records to other institutions. The verifying signature preferably should be that of an officer of the institution attended. All academic records that are not in English must be accompanied by certified English translations.

Test Scores

Official test results from a nationally standardized graduate admission test are required for all applicants. The University of West Florida accepts the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), and the Graduate Management Admissions Test (GMAT). Applicants should contact the graduate department for which he/she applied to inquire as to which test is acceptable for that program. It is recommended that the graduate admission test be taken no later than April for the fall semester, August for the spring semester, or January for the summer semester. The test scores are considered official only when they are sent directly to the Graduate School from the testing agency. Examinee copies are not considered official. Applicants to the Ed.D. program should take the GRE or MAT one year prior to desired admission. The GRE, GMAT, and MAT are offered several times a year at numerous testing centers in the U.S. and abroad. Advanced registration is required. Registration forms, as well as detailed information on the availability and character of the examinations, may be obtained from the UWF Testing Office.

Departmental Requirements

Some departments have additional admission requirements such as auditions, portfolios, goal statements, letters of recommendation, departmental applications, writing samples, personal interviews, and diagnostic testing. Applicants should contact the department directly regarding any departmental admission requirements. These items should be sent directly to the department.

Deadlines for Applications and Supporting Documents

The final deadlines for applications and supporting documents for graduate applicants with U.S. citizenship or permanent resident status are:

Fall Semester	June 1
Spring Semester	October 1
Summer Semester	March 1

Because some departments have earlier deadlines, applicants should contact specific academic departments for departmental deadlines. It is in an applicant's best interest to apply early. Files completed after the published deadlines may not be processed in time for the student to be considered for enrollment in the desired semester.

ADMISSION POLICIES

Admission to a UWF graduate program is a selective process that is governed by university requirements and department requirements that may exceed university-level requirements. Admission decisions are based on a holistic review of credentials in which multiple criteria are used to judge the appropriateness of an applicant to pursue graduate study. Each department selects factors it considers will help predict probable success in the graduate program and may include, but are not limited to, the quality of the applicant's undergraduate or graduate preparation as determined by the undergraduate or graduate institution attended, undergraduate or graduate grade point average, and performance in specific courses; scores on standardized admission tests; the motivation and attitude of the applicant as determined by a personal statement, letters of reference and/or a personal interview or other means; and writing ability. Preference for admission to any semester is given to students whose credentials indicate the greatest promise for academic success. Because of factors related to a department's enrollment capacity, the fact that a student meets minimum requirements does not guarantee admission to a specific program. Admissions requirements shall not include preferences in the admissions process for applicants because of race, national origin, or gender.

Requirements for Regular Admission to a Master's Program

Each applicant shall be required to meet minimum University requirements:

- An earned bachelor's degree from a regionally accredited U.S. institution or from an institution accredited by an equivalent accrediting body or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.0 on a 4-point scale, or a 3.0 (GPA) on a 4-point scale on the last 60 hours of coursework in the baccalaureate degree.
- Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
- A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), the Graduate Management Admission Test (GMAT), or an equivalent that is acceptable for the program to which the student is applying. Test scores must be no more than five years old.
- Approval by the department offering the degree to which the applicant is applying.

Departments may establish standards that exceed these university requirements or require additional application materials. Departments may accept an earned graduate degree from a regionally accredited U.S. institution or from an institution accredited by an equivalent accrediting body in lieu of the bachelor's degree and required standardized admission test.

Requirements for regular admission to an Education Specialist Program

Each applicant shall be required to meet minimum University requirements:

- An earned master's degree from a regionally accredited U.S. institution or from an institution accredited by an equivalent accrediting body or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.25 on a 4-point scale.
- Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
- A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or an equivalent that is acceptable for the specialization to which the student is applying. Test scores must be no more than five years old.
- Other requirements as specified by each specialization for the degree.
- Approval by the department offering the specialization to which the applicant is applying.

Requirements for regular admission to a Doctoral Program

Each applicant shall be required to meet minimum University requirements:

- An earned master's degree from a regionally accredited U.S. institution or from an institution accredited by an equivalent accrediting body or a comparable degree from an international institution with a minimum cumulative grade point average (GPA) of 3.5 on a 4-point scale.
- Be in good standing at all previous institutions of higher learning. Students who, for academic or disciplinary reasons, are not eligible to register in the college or university last attended will not be admitted for graduate study.
- A score on a nationally standardized graduate admissions test, such as the General Test of the Graduate Record Examination (GRE), the Miller Analogies Test (MAT), or an equivalent that is acceptable for the specialization to which the student is applying. Test scores must be no more than five years old.
- Other requirements as specified by each specialization for the degree.
- Approval by the department offering the specialization to which the applicant is applying.

Provisional Admission

With approval from the department, students who do not have all application materials available at the time of admission may be granted provisional admission by the Graduate School. Provisional admission is appropriate for circumstances such as when the undergraduate institution has not posted the awarding of the baccalaureate degree, when graduate admissions has not received the applicant's official standardized test score, or when information required by the department is incomplete. Students who are granted provisional admission must submit all application materials during the first semester of graduate study or risk removal by the Graduate School of their status to pursue graduate study.

Conditional Admission

Students who do not meet the criteria for regular admission may be admitted by a department on a conditional basis. Also, students who have graduated from a recognized, although non-accredited, institution may be admitted on a conditional basis. Students admitted on a conditional basis are permitted to register for up to 12 semester hours, identified by the department as appropriate to the degree, and must earn at least a grade of "B" on each of those courses or risk removal of their status to pursue graduate study. Admission on a conditional basis should not be routine.

INTERNATIONAL GRADUATE ADMISSION

Applicants to the University are considered international if they are not U.S. Citizens, dual citizens, or permanent residents. In addition to the policies and procedures stated for the different categories of admission, the following information pertains to international applicants.

International Education and Programs (IEP)

International Education and Programs provides immigration assistance to all international students, scholars, and employees at the University of West Florida. Among the services offered are:

- Advising on immigration rules, regulations, responsibilities, and deadlines processing immigration requests and forms such as travel documents, employment authorizations, dependent documents, and social security card applications/approvals
- Optional Practical Training (OPT) and Curricular Practical Training (CPT) Workshops
- Communication with the international student community of any changes in immigration rules and regulations
- Connecting students with appropriate university offices or state agencies
- Serving as a liaison with other university units on behalf of international students

The Office of Diversity and International Education and Programs is located in Building 71. Please see additional information for International Students and available services at uwf.edu/internationaloffice.

Academic Records

International applicants must submit original documents or signed, officially certified photocopies of original documents, as well as certified translations of all documents that are not in English. International applicants must also have their foreign credentials evaluated by one of the four evaluation services listed below. The evaluation should contain a course-by-course description and a grade point average from each institution attended. Applicants have the responsibility to contact the evaluation agency directly and have the evaluation agency send the official evaluation report to UWF. The official evaluation report must be received by the application deadline for the semester the applicant plans to attend. The acceptable evaluation services are the following:

Educational Credential Evaluators (ECE)
P.O. Box 514070
Milwaukee, WI 53203-3470
Ph: (414) 289-3400
Fax: (414) 289-3411
www.ece.org
eval@ece.org

International Education Evaluators (IEE)
P.O. Box 545863
Surfside, FL 33154
Ph: (305) 503-9063
Fax: (305) 993-5550
www.iee-usa.com
info@iee-usa.com

Josef Silny & Associates, Inc.
International Education Consultants
7101 SW 102 Avenue
Miami, FL 33173
Ph: (305) 273-1616
Fax: (305) 273-1338
Translation Fax: (305) 273-1984
www.jsilny.com
info@jsilny.com

World Education Services, Inc.
P.O. Box 5087
Bowling Green Station
New York, NY 10274-5087
Ph: (212) 966-6311
Fax: (212) 739-6120
www.wes.org

English Proficiency Test

If the international applicant's native language is not English, or the applicant is from a country in which the primary language is not English, he or she must take one of the following tests before consideration of admission.

Test of English as a Foreign Language (TOEFL)
International English Language Test System (IELTS)
Michigan English Language Assessment Battery (MELAB)

Minimum scores required by the University are listed below. However, individual departments may require higher scores.

Paper-based TOEFL: 550
Listening/Comprehension Sub Score: 53

Computer-based TOEFL: 213
Listening/Comprehension Sub Score: 20

Internet-based TOEFL: 79/80
Listening/Comprehension Sub Score: 19

IELTS: 6.5
Listening/Comprehension Sub Score: 7

MELAB: 78

English proficiency test scores are considered official only when they are sent directly to the Graduate School from the Educational Testing Service, Box 6151, Princeton, New Jersey, 08541-6151, USA. English proficiency test information and registration forms are available in many locations outside the U.S., usually at U.S. embassies and consulates, at offices of the U.S. Information Agency (U.S.I.A.), from U.S. educational commissions and foundations, at Binational Centers, and from many private organizations such as the Institute of International Education (IIE), American-Mideast Educational and Training Services, Inc. (AMIDEAST), and the African-American Institute (AAI).

All international students who must take an English Proficiency Test for admission are also required to demonstrate proficiency in English by either passing the English Entry Exam or completing a course in English for Non-Native Speakers. The English entrance exam is required in addition to the English Proficiency Test for admission. Students will be required to take the English Entry Exam at the University prior to initial registration. Students failing to pass the exam must take the required English for Non-Native Speakers course. Students who fail this course must retake the course the next semester. International students expecting to receive appointments as teaching assistants also are required to pass a test of spoken English.

Certification of Finances

Certification of finances must be completed and returned to the International Student Office before the student visa, "Certificate of Eligibility" (Form I-20 or DS 2019), is issued. The University is required by U.S. Citizenship and Immigration authorities to check the financial resources of each student prior to issuing Form I-20 or DS 2019. Therefore, it is important for the applicant to know the costs of attending the University and have the necessary funds for the entire period of enrollment. Funds for one year of study and living expenses must be documented and approved by the University before an I-20 or DS 2019 is issued.

The "Confidential Financial Statement" form must be completed, signed by the student, and verified by the student's or sponsor's bank or financial institution with a statement of deposit. It must be accurate and documented to avoid unnecessary delay in processing. Before completing the "Confidential Financial Statement," the applicant should review the estimate of institutional costs and living expenses. The total amount of funds available to the student must be listed for each year of planned attendance and must equal or exceed the total estimate of institutional costs and living expenses. The "Confidential Financial Statement" form can be found at http://uwf.edu/internationaloffice/forms.cfm. This form must be accurate and documented to avoid unnecessary delay in processing. The "Confidential Financial Statement" and supporting documents from the student's or sponsor's bank or financial institution should be submitted to the International Student Office, Building 71, 11000 University Parkway, University of West Florida, Pensacola, Florida, 32514, United States.

Health Form/ Health Insurance

Applicants must submit a "Student Health Form" completed in its entirety by a physician. Documentation of measles (rubella and rubeola) immunization must be submitted. Any document submitted in a language other than English must be accompanied by a translation. Florida law also requires that students residing on campus must provide proof of immunization for meningitis and hepatitis B, or sign a waiver indicating their informed decision not to be vaccinated.

International students are required to show proof of adequate medical insurance coverage for illness or accidental injury before they will be permitted to register or to continue enrollment. An adequate medical insurance policy must meet a number of requirements, including that the insurance proceeds are payable in U.S. currency. Insurance may be obtained at the University before registration.

Deadlines for Applications and Supporting Documents

Fall Semester	June 1
Spring Semester	October 1
Summer Semester	March 1

Notice of Admission

If a student's application for admission to UWF is approved, an official notice of admission will be sent by the Graduate School. Admission is for a specific semester only. If the student is unable to enroll for the semester indicated on the notice of admission, the Graduate School should be informed immediately. Under no circumstances should an applicant make departure plans for Pensacola until official approval has been given by the Graduate School and the student has received the Form I-20 from the International Student Advisor (see section on passports and visas). Students who come to the campus without first receiving an official notice of acceptance do so at their own risk. The student's presence on the campus will not influence the decision on an application for admission.

Passports and Visas

Students meeting all admission requirements of the University will be mailed a "Certificate of Eligibility" by the International Student Advisor. Students possessing a valid Form I-20 or DS 2019 will be considered for a student visa (F-1 or J-1) by presenting it and the following documents to the nearest U.S. Embassy, or Consulate:

- A valid passport,
- Evidence of adequate financial support,
- Evidence of proficiency in the English language, and
- The type of health certificate required by the U.S. Consulate.

The student visa is stamped on a page in the passport.

Transfer of Funds

Prospective students should familiarize themselves with the current regulations of their own governments, as many restrict the purchase of U.S. dollars. Students should arrive with ample funds in U.S. dollars or traveler's checks. Local banks provide exchange services, but this procedure can be lengthy and expensive.

International Student Advisor

The International Student Advisor is available to assist students with problems ranging from immigration to cultural and personal matters. Students should feel free to ask questions and seek assistance from this office at any time. The International Student Advisor may be reached at 850-474-2386.

Employment

The U.S. Citizenship and Immigration Services (USCIS) specifically restricts permission for international students to accept employment off campus. Permission is not granted during the first year of study. Permission, if granted, is restricted to 20 working hours per week; this includes graduate assistantships. Permission to accept employment after completion of a degree for the purpose of practical training is not a right associated with a student visa, but a privilege.

Any application for practical training must be approved by USCIS. This employment is for training purposes only, for a temporary period not to exceed one year.

READMISSION

Readmission to Master's and Specialist Programs

Graduate students not in attendance during three or more consecutive academic semesters (including summer semester), but less than five years, must complete the "Application for Readmission" and provide any required documentation. The form must be filed according to readmission deadlines stated in the current Academic Calendar.

Degree-seeking students file the readmission application in the Graduate School. Official transcripts from each college or university attended since previous enrollment at UWF must be submitted to the Graduate School prior to readmission. If a student is currently enrolled at another institution, the final transcript must be submitted when the term has ended.

Graduate students who last attended their graduate programs over five years ago must reapply to their program using the graduate application for admission.

Readmission to Ed.D. Program

Doctoral candidates who do not attend three consecutive semesters must formally reapply to the University and to the program. Readmission to the Doctoral Program is at the discretion of the Ed.D. Admissions Committee.

APPEAL OF ADMISSION DENIAL

Denial of Admission to Graduate Programs

Applicants who have been denied admission to a graduate program at the University may appeal, in writing, to the appropriate college dean by the first day of classes of the semester for which admission was requested.

AFTER ADMISSION

APPLY FOR FINANCIAL ASSISTANCE

Refer to information on Financial Assistance.

APPLY FOR HOUSING

Refer to information on Housing.

APPLY FOR MILITARY AND VETERANS BENEFITS

Refer to information on Military and Veterans.

MEDICAL STATEMENT AND IMMUNIZATION

Medical History

All students are required to submit a completed and signed Medical History Form to the UWF Student Health Center before registration. If the student is underage, the form must be signed by his/her parent. This form also serves as consent for treatment.

Immunization Requirements

All students are required to submit documented proof of immunity to Rubeola and Rubella.

Documented proof of immunity to Rubeola is one of the following:

- Documented proof of two (2) doses of vaccine on or after the first birthday
- Laboratory evidence of Rubeola immunity (titer)
- A signed, dated statement by a physician on their stationary which specifies the date of Rubeola diagnosis characterized by generalized rash of three days, a temperature elevation of 101 degrees Fahrenheit, a cough and conjunctivitis, diagnosed with the 10-day Rubeola measles

Documented proof of immunity to Rubella is one of the following:

- Documented proof of one (1) dose of live Rubella vaccine on or after the first birthday.
- Laboratory evidence of Rubella immunity (Titer). (Having had Rubella does not prove immunity.)

Acceptable documentation for Rubeola and Rubella must be from your physician, County Health Department records, military medical records, or from your college records.

Documentation should include day, month and year of immunization and signed by a medical provider.
Exceptions to the immunization policy may be granted in the event of medical contraindications or for religious reasons. Documentation verified by a physician or minister on their official stationery is required.

All students are also required to present proof of immunization for Meningococcal Meningitis and Hepatitis B or sign a waiver indicating their informed decision not to be vaccinated. A student under the age of 18 must have the waiver for declined vaccination signed by a parent or legal guardian. Immunizations and waivers are available in the Student Health Center. Documentation of immunity may be presented in person or by mail or fax. Mail to the University Health Center, University of West Florida, Bldg. 63, 11000 University Parkway, Pensacola, FL 32514. Include name, birth date, and UWF student ID number. Fax to (850) 857-6100. Call (850) 857-6346 or (850) 474-2172 for questions or clarification.

ORIENTATION

The Graduate School, in collaboration with various other units of the University, hosts a New Graduate Student Orientation. The orientation provides newly admitted graduate students with an overview of University services and extracurricular opportunities and an understanding of what to expect academically and financially as UWF graduate students. Graduate students attending the orientation have the opportunity to interact with representatives from academic departments, the Graduate Student Association, and other campus organizations while networking with other newly admitted graduate students. Additionally, students may purchase text books, parking permits, and their Nautilus Card on site. Supplementary orientation programs may be offered by individual academic departments.

ACADEMIC ADVISING

Each degree-seeking graduate student is assigned to a faculty member to assist in planning academic programs; provide guidance in personal, academic, and professional development; and foster interaction among students and faculty.

The Teacher Education Advising Center is the central campus office for all student information relating to teacher education. This office admits students into teacher education programs and into student teaching, distributes certification applications, and makes recommendations for certification.

LIGHTHOUSE

New students may check their admission status through Lighthouse at lighthouse.uwf.edu. Once admitted, students may also check their financial aid status and register for classes for the first time.

REGISTER FOR CLASSES

Refer to information on Registration and Academic Policies.

OBTAIN NAUTILUS CARD

All Pensacola campus students are required to purchase a Nautilus Card. Refer to information on fees.

OBTAIN PARKING PERMIT

Parking a vehicle on campus requires a parking permit which may be purchased at the Cashier's Office, Building 20, or online at uwf.edu/parking.

CONFIRM RESIDENCY FOR TUITION PURPOSES

Refer to information on Residency.

PAY TUITION AND FEES

Refer to information on Tuition and Fees.

REVIEW STUDENT RIGHTS AND RESPONSIBILITIES

Obtain a copy of the *Student Planner and Handbook* for more information on topics below:

Student Code of Conduct

The University seeks to provide an environment which encourages the thoughtful development of intellectual, social, and moral standards. Student conduct is expected to be lawful, and students are expected to abide by all University regulations and the Student Code of Conduct, as published in the *Student Planner and Handbook* at thezonelive.com/zone/public/6/schoolHome.asp?i-12706.

Grievance

All students may bring grievances to the attention of University personnel, and they will receive prompt and fair disposition of grievances as outlined in the *Student Planner and Handbook* at website thezonelive.com/zone/public/6/schoolHome.asp?i=12706.

Prohibition of Harassment

Harassment is prohibited, whether on the basis of race, color, sexual orientation, religion, gender, national origin, age, physical disability, marital status, or veteran status. Harassment is defined as conduct which unreasonably interferes with a student's status or performance by creating an intimidating, hostile, or offensive working or education environment. Sexual harassment is defined as unwelcome or unsolicited sexual advances, requests for sexual favor, and other verbal or physical conduct of a sexual nature.

Guidance, support, and assistance concerning discrimination are available from the Office of Human Resources. Any student believing they have been harassed may bring complaints to the Office of Human Resources.

Use of Instructional Space and Resources

University facilities and equipment are intended primarily for the use of the faculty and students currently enrolled in courses of instruction. Students who have completed registration, including the payment of fees for the current semester, and whose names appear on the final class rolls, are authorized to attend classes and to use University instructional areas, facilities, equipment, and designated services. Students, including those continuing work on theses and dissertations, who are not enrolled for the current semester, are not authorized to use instructional space and resources.

Students may not attend classes, including use of instructional space, facilities, designated library services, and equipment, for which they have not paid fees or from which they have withdrawn.

FINANCIAL ASSISTANCE

The Financial Aid Office (FAO) coordinates a comprehensive program of scholarships, grants, part-time employment, and loans available through Federal, State, and University funds. The financial aid program enables students and parents to reduce or eliminate financial barriers to admission and retention at the University. All awards are dependent upon availability of funds and demonstration of financial need, unless otherwise noted. A graduate degree-seeking student who has been given temporary non-degree student status by the Graduate School is eligible for institutional short term loan assistance only. Non-degree students are not eligible to receive other forms of financial assistance.

APPLYING FOR FINANCIAL AID

A student applying for financial aid must follow the procedure outlined below:

- Submit the "Institutional Financial Aid Application" form. The form is available online at uwf.edu/finaid.
- Complete the "Free Application for Federal Student Aid (FAFSA)" which is available online at fafsa.ed.gov. The results, called a Student Aid Report (SAR), will be electronically transmitted to the University of West Florida when the student enters "003955" in Step 6 on the FAFSA form.
- Submit an application for admission to UWF. No offer of financial aid will be made until the applicant has been accepted for admission to UWF.

All completed, eligible applications for financial aid will be processed on a first-come, first-served basis. Most financial aid programs specify that an applicant register at least half-time, maintain satisfactory academic progress, and show evidence of financial need. Receipt of a financial aid award does not guarantee financial aid in subsequent years. A student must reapply for financial aid each academic year.

SATISFACTORY PROGRESS REQUIREMENTS

The U.S. Department of Education requires each institution to set GPA, completion ratio, and time limit standards to monitor a student's satisfactory academic progress in their course of study. All types of aid discussed are included in this policy. The following standards are measured when a student is initially awarded and at the end of each spring semester thereafter:

Minimum Cumulative UWF GPA

Graduate, Specialist, and Doctorate: 3.0 at all times

Minimum Cumulative Completion Ratio

Satisfactory completion means that a student must complete at least 75% of the courses in which they enroll with the following grades: A, B, C, D, S, and N. Unacceptable grades include F, U, I (incomplete), W, WF, WR, TR, V (extended incomplete) and X (audit). Transfer hours from previous institutions are included in the completion ratio. Students declared ineligible for financial aid on the basis of unsatisfactory academic progress may appeal the decision in writing. Appeal procedures are available online or from the Financial Aid Office.

Maximum Time Limit

The maximum time limit for a graduate student is 150% of the program length. All coursework taken is included in these totals (transfer hours, withdrawals, F's, etc.). Maximum Time Limit cannot be appealed.

Reinstatement Policy

A student that chooses not to appeal, or whose appeal is denied, will regain eligibility once the minimum standards for GPA and/or completion ratio are achieved.

Appeal Information

Satisfactory progress is monitored when a student is initially awarded and at the end of each spring semester. Students who have failed to meet one or more of the conditions will be notified in writing. Students who fail to meet GPA and/or completion ratio standards may submit a written appeal to the Financial Aid Office. The Appeals Committee meets weekly on those appeals that are received by noon on Tuesday. Required documentation must also be received in the Financial Aid Office by the Tuesday deadline. Students may appeal a satisfactory progress problem when extenuating

circumstances exist. Examples include the following: illness, family emergency, death in the family, military deployment. Documentation is required in these situations.

Once the committee meets on an appeal, the student is notified in writing of the committee's decision. If the appeal is denied, the student will regain eligibility once minimum standards for GPA and/or completion ratio are achieved. In addition, if the appeal is denied, the student has the right to meet with the Financial Aid Director for review. The Director's decision is final.

The Appeal Process – Other Than Satisfactory Progress

If you feel there is reason to question a decision, award, or procedure of the Financial Aid Office, you have the right to appeal. The appropriate appeal procedure is outlined below.

> You should make an appointment to discuss the situation with the Financial Aid Office staff member who has been assigned responsibility for your file. If the meeting does not resolve the concern...
>
> You should submit an appeal in writing and make an appointment with the Associate Director. If still not resolved…
>
> You have the right to an additional appeal to the Director of Financial Aid. The Director will review your written appeal and your financial aid records with you. If no understanding is reached...
>
> You may appeal to The UWF Associate Vice President for Enrollment Services. This will result in a final decision.

GRANTS

Limited funds are available to graduate students who demonstrate financial need. Repayment is not required. Grants range in value from $200 - $2,000 per year.

LOANS

Subsidized and Unsubsidized Federal Direct Loans

A subsidized loan is need-based and accrues no interest while you are attending school at least half-time. If you do not qualify for a subsidized loan, an unsubsidized loan will be processed. An unsubsidized loan does accrue interest from the time the loan is disbursed. You have the option to pay the interest every 90 days or let it capitalize. Students are encouraged to pay the interest, if possible, to avoid additional interest charges. Both loans have a 6-month grace period before repayment begins, and you can prepay the loan at any time without penalty. Additional information regarding interest rate, annual, and aggregate limits can be found on the financial aid website at uwf.edu/finaid.

Federal Grad PLUS Loan

The Grad PLUS loan allows a graduate student to borrow up to the total cost of education minus any other financial aid. The interest rate is fixed, and repayment is generally deferred while in school. Half-time (6 graduate hours) enrollment, satisfactory academic progress, and a credit check are required. Additional information and application procedures are available in the Loans section of the Financial Aid website (uwf.edu/finaid).

Federal Perkins Loans

These are need-based, long-term, 5% interest loans awarded to a limited number of graduate students. Loans up to $3000 per academic year (fall and spring) are awarded to students enrolled at least halftime (6 hours) and working on a first degree. Repayment begins nine months after the student graduates or ceases at least half-time enrollment.

Institutional Short-Term Loan Program (STL)

These loans are available to ease a temporary cash-flow problem. They carry a modest service charge and must be repaid during the same semester in which they are received. Limited to a maximum of $500, STLs are not considered financial aid. Applications are available online through ARGUS. This program is administered through the Office of Students Accounts.

SCHOLARSHIPS

John C. Pace, Jr. Graduate Scholarship

Merit-based funds are awarded to a limited number of full-time graduate students. The John C. Pace, Jr. Graduate Scholarships can be awarded for the fall and/or spring semesters. To qualify, a newly admitted graduate student must have an undergraduate GPA of at least 3.0 and continuing graduate students must have a UWF GPA of at least 3.0. To receive the John C. Pace, Jr. Graduate Scholarship, the graduate student must be enrolled for six or more semester hours of graduate credit for each fall and spring semester of the award. Each college may establish additional criteria. The amount of the award can vary for each graduate student. The awards are renewable each year if recipients maintain full-time, degree-seeking status and good standing with a minimum cumulative GPA of 3.0. Recipients are recognized publicity as John C. Pace, Jr. Scholars.

Merit Graduate Scholarship

Merit-based funds are awarded to a limited number of full-time graduate students. The Merit Graduate Scholarships can be awarded for the fall, spring, and/or summer semesters. To qualify, a newly admitted graduate student must have an undergraduate GPA of at least 3.0 and continuing graduate students must have a UWF GPA of at least 3.0. To receive the Merit Graduate Scholarship, the graduate student must be enrolled for six or more semester hours of graduate credit for each fall, spring, or summer semester of the award. Each college may establish additional criteria. The amount of the award can vary for each graduate student. The awards are renewable each year if recipients maintain full-time, degree-seeking status and good standing with a minimum cumulative GPA of 3.0.

STUDENT EMPLOYMENT

Federal Work-Study (FWS)

This is a need-based program where a student is assigned an on-campus job. A small percentage of FWS funds are allocated to off-campus, non-profit community service organizations. Awards are available to a limited number of graduate students enrolled at least half-time (6 hours) working on a first degree. The average award is 15 hours per week at $7.25 per hour. Students are paid by check every two weeks based upon the number of hours worked during that period.

On Campus Student Employment (OPS)

University departments and offices employ students under the OPS program. The Office of Human Resources administers a student employment service which provides detailed information for job opportunities on-campus. Visit the Student Employment site at uwf.edu, select “Employment Opportunities” under Quicklinks, and then in the left column select “Student Employment.” Interested students should contact the hiring office or department to apply.

Off-Campus Part-Time Employment

Off-campus employers advertise with the Office of Career Services to assist in filling part-time positions. These positions are advertised online at uwf.edu/career.

STUDENT ACTIVITIES

The University offers many diverse opportunities for participation in extracurricular activities and encourages the development of student interest groups and activities. The University Commons and Student Activities Office (UCSA) coordinates all Campus Activity Board events, Homecoming activities, Welcome Week events, student organization events including fraternity and sorority recruitment, and the Voyages Leadership program. The office maintains a complete schedule of activities and is responsible for general management of the University Commons.

Involvement in extracurricular activities is a vital part of student life at the University of West Florida. The University officially recognizes over 100 registered student organizations in six categories: special interest, academic interest, professional societies, religious organizations, Greek life (fraternities and sororities), and honor societies. The UCSA maintains the official roster of all registered student organizations. These clubs and organizations extend learning from the classroom into real-life situations as students learn to work in teams with diverse membership, plan events, develop budgets, and promote activities. Several organizations prepare teams and projects to participate in regional and national competitions in their fields of interest. Students may also start their own organization or student interest group by contacting the Assistant Director, UCSA.

The University also offers extracurricular activities in music, theatre, forensics, recreation, and various other organizations. In addition, there are many activities and events in which students may participate, assist, or organize. Please refer to the UCSA website at uwf.edu/ucommons for details.

Intercollegiate Athletics

The intercollegiate athletic program comprises competitive teams in thirteen sports: men's teams in baseball, basketball, cross country, golf, soccer, and tennis; and women's teams in basketball, cross country, golf, soccer, softball, tennis, and volleyball. Additional information may be found at GoArgos.com

The Argonauts compete in the National Collegiate Athletic Association (NCAA) Division II and the Gulf South Conference. Championship playoff opportunities are provided in each sport. Each team plays a full schedule of competition with schools throughout the southeastern United States, and many institutions from the Midwestern and Eastern sections of the country visit UWF in the spring. As of August 2010, the Argonauts have won 54 GSC championships and five national championships.

The University sports facilities include a field house (1,180 capacity), twelve lighted tennis courts, a lighted baseball park (1,500 capacity), two lighted softball fields (800 capacity), and a lighted track which encircles the varsity soccer field (800 capacity).

STUDENT SERVICES AND RESOURCES

ARGOALERT—EMERGENCY NOTIFICATION SYSTEM

ArgoAlert is UWF's way of notifying students, faculty, and staff in case of an emergency. In the event of an emergency at the University of West Florida, a combination of methods would be used to communicate with the campus community. Methods utilized are dependent on the situation. Additional information is available at uwf.emergency.org/notification.cfm.

Campus-wide email
Emergency web site
Fire Bell/Strobe Light
Siren/Loud Speaker System
Telephones
Text Messages (SMS) and Instant Messages (IM) – All students, faculty, and staff can sign-up to receive text messages (SMS) to their text messaging enabled mobile device and/or instant messages (IM) to a GoogleTalk IM account. Standard text messaging rates from the subscriber's mobile carrier will apply. Individuals should follow the instructions in the message.
Verbal Messages
WUWF 88.1 FM
WUWF-TV

BOOKSTORE

UWF Bookstore – The Official University Bookstore

In addition to stocking new and used texts and educational supplies, the bookstore offers a substantial selection of general books, best sellers, study aids, Dell computers, computer software, art supplies, emblematic gifts and clothing, class rings, graduation announcements, residence hall supplies, personal and food items, and other necessities. The bookstore offers many additional services including special orders for books, graduation apparel rentals, and year-round book buy-back. The bookstore accepts all major credit cards, the Nautilus Card, cash, and personal checks. For more information, visit the website at uwf.bkstr.com.

BookNow

BookNow is a service which connects UWF's online registration system to the Bookstore, allowing students to purchase textbooks online immediately after registering for classes. If you choose to buy books, you will be directed into the bookstore's system and provided with a pre-populated list of required and recommended course materials based on your class schedule. You then can decide which books you wish to purchase and whether to purchase new or used books. Purchases may be picked up at the bookstore or shipped to you.

Bookstore Deferment Program

If students are receiving financial aid, the Bookstore Deferment Program will allow them to purchase their textbooks before their aid is disbursed. Deferment is not an additional award but an estimated amount based on the individual student's financial aid award less unpaid charges on the student's account. The maximum deferment amount is $600.00. Students will receive notification, usually by email, from the UWF Financial Services department if they have excess financial aid funds that may be used. Students must be enrolled for the minimum number of hours required for their financial aid award.

Computers

Get the configuration specified by UWF at a special price! Laptops and desktop models are available. All models are made by Dell, configured to be appropriate for most academic programs on campus, and are academically priced. The IT department will provide hardware support for computers purchased through the Bookstore. The IT Support Center is an Authorized Dell Repair Center for Dell computers purchased through the Bookstore.

Satellite Bookstore

A satellite UWF Bookstore is located in Building 2 on the Fort Walton Beach campus. Textbooks for the Emerald Coast Campuses and Eglin Air Force Base Center as well as basic school supplies and emblematic items are sold at that location.

CAREER SERVICES

Career Services provides students with the tools they need to obtain career-related experience while in school and assists students with the full-time job search upon graduation. Career coaches work with students regarding choosing/changing a major/career. Career advisors also work with students regarding their development of job-search skills such as resume and cover letter writing, interviewing, job search strategies, and evaluating a job offer. Students and alumni can set up one-on-one appointments with a career advisor or attend "drop-in hours" to get answers to quick career-related questions. Through experiential learning programs facilitated by Career Services, such as internship, cooperative education (see Cooperative Education), and the Disney College Program, students can gain experience while still in school. Volunteer UWF!, a unit within Career Services, helps connect students with service opportunities in the community. Career Services also holds a Career Fair every fall and spring semester that attracts employers from the local area as well those nationally recognized. Coordination of such events is done through JasonQuest, an online job posting service offered only to UWF students and alumni. JasonQuest is a dynamic system by which students may find internships, CoOps, volunteer opportunities, part-time off campus positions, and full-time positions. For more information, visit the Career services website at uwf.edu/career or stop by Building 19, North foyer, during regular office hours, 8 a.m. to 5 p.m., Monday-Friday.

COOPERATIVE EDUCATION

Cooperative Education (CoOp) allows students to gain professionally relevant work experiences that complement their academic studies. Through alternating or paralleling study with paid work experience in their intended fields, students in the Cooperative Education Program have an opportunity to professionally explore and apply principles acquired in the classroom. Cooperative Education is always paid, always for credit, and always a multiple semester experience. Cooperative Education is a partnership among employers, students, and the University focused on professional practice and vocational exploration. Vocational exploration confirms academic and career objectives and enhances development of self-confidence. Skills in human relations are realized. Courses assume greater meaning, employment options increase, and educational expenses are partially offset. The student may join an employer in industry, government, or social agencies.

Comprehensive guidelines govern the program. Students enter the program by attending a Cooperative Education Information Session offered through Career Services. Students must then receive departmental recommendation for the program and attend an Individual Planning Session. Once a student has faculty approval he or she can begin to apply and interview for CoOp positions. Upon accepting a CoOp position students will register in the Cooperative Education Program.

Students must have full-time status and have an established UWF GPA to participate in the Cooperative Education program. Undergraduate students must maintain a UWF GPA of at least 2.3. The program is also available at the graduate degree level. To start the program graduate students must have completed at least one semester of graduate study at UWF. Graduate students must maintain a UWF GPA of at least 3.0. Students will participate in either the Alternating CoOp or the Parallel CoOp model. Alternating CoOp students must work at least two full-time semester long assignments. The Alternating Model is separated by a semester of full-time enrollment in courses. While Alternating students are on CoOp assignment they will work 40 plus hours per week. Alternating CoOps do not enroll in other courses while on assignment. They do not work in their CoOp positions during their coursework semesters.

Parallel CoOp students will work approximately 20 hours per week for three consecutive semesters. Undergraduate Parallel CoOp students will enroll in 9-12 credit hours each semester (Fall or Spring), and 6-9 credit hours during the summer. Graduate Parallel CoOp students will enroll in 6-9 credit hours each semester (Fall or Spring), and 3-6 credit hours during the summer. Students must continue to make progress in their courses while participating in the Parallel CoOp Program. Academic consideration may be given for special employer requests requiring back to back rotations (Summer/Fall, Spring/Summer). Students that are submitted to employers as CoOp candidates, and accept Cooperative Education positions, are expected to follow program guidelines. A minimum of two alternating or three parallel work terms

is required to satisfactorily complete the CoOp Program. Each work term Cooperative Education students enroll in a Cooperative Education credit hour. CoOp Students are paid by the employers.

CHILD CARE

Child care is available through the Educational Research Center for Child Development on a fee basis for children of students, faculty, staff, and alumni. Regular enrollment is open to children who are six months old through kindergarten age. Age range is extended through ten years during the summer semester. While students are given priority in placement, prospective students are urged to make application for child care as early as possible. The center is staffed by professionals in the field of education and provides a broad range of learning experiences for each child and opportunities for research, internships, and supervised teaching experiences for University students. Visit the website at uwf.edu/childdev.

COPY SERVICES

University Copy Service provides copiers for both student and departmental use. All copiers are equipped with Nautilus Card readers; some also accept cash. Money may be added to your Nautilus Card at any Automatic Deposit Machine (ADM) or at the Cashier's Office in Building 20E. Copies made with a personal Nautilus Card cost 8 cents. Cash copies are 10 cents each. 11"x17" copies count as 2 copies. Student copiers are located in the Library, Curriculum Library, Commons Cyberlab, Science and Engineering Building, and the Computer Center in Building 79. For additional information, call the Auxiliary Services office at (850)474-3012 or visit uwf.edu/copyserv/internal.

COUNSELING AND WELLNESS

Counseling Services and Wellness Services work collaboratively to create a culture at UWF in which students strive for mental and physical health. Each area also works independently, providing unique contributions to the UWF campus community. For more information contact Counseling and Wellness Services, Building 19, (850) 474-2420, or at uwf.edu/cws.

Counseling Services provides confidential personal, vocational, and couples counseling to students free of charge at both the Pensacola campus and Fort Walton Beach campus. Counselors and psychologists help students with problems including depression, test anxiety, vocational indecision, relationship difficulties, sexual concerns, interpersonal conflict, identity confusion, substance abuse, stress management or other personal difficulties which may impede a student's academic progress. Workshops are sponsored on various topics, including stress and time management, romantic relationships, interpersonal and personal functioning, and vocational development. Also, students' questions are answered in a weekly column, Ask Dr. Argo, in the student newspaper.

Wellness Services is the focal point on campus for student health promotion and provides workshops, awareness events, and other educational programming in the areas of alcohol and other drug misuse/abuse prevention, STI/HIV prevention and sexual health promotion, and sexual assault prevention. These services are initiated campus-wide and are offered to student groups, organizations, residence halls, and classes. Wellness Services also works with the UWF Peer Educators to promote student driven health efforts on campus.

DINING SERVICES

Dining Services locations on campus are as follows:

University Commons: Nautilus Market (All-You-Care-to-Eat and Meal Plan dining facility), Argo Galley, Quizno's Sub, and Chick-N-Grill

Pace Library: "We Proudly Brew" Starbucks

HLES Facility: Terra Juice

College of Professional Studies Building: Sub Generation

Science and Engineering Building: Outtakes

All dining locations accept cash, credit cards, and the Nautilus Card. Meal plans are used in the Nautilus Market. First-time-in-college students living in University housing are required to participate in the mandatory meal plan their first two semesters on campus (summer residence not included). Mandatory participants will automatically receive the 10 Meal Plan (the default), but may choose to upgrade to the 15 or 19 meal plans. Savings on meal costs are available to resident and nonresident students with Meal Plans. Catering services for special functions are also available. Detailed information about campus dining may be obtained from the UWF Dining Services office or by visiting www.dineoncampus.com/uwf/.

DISABILITY SERVICES FOR STUDENTS

Student Disability Resource Center (SDRC) is designed to respond to the needs of students with disabilities who require special academic adjustments both in and out of the classroom. The SDRC staff provides assistance for eligible students with disabilities by ensuring that appropriate accommodations are made through a variety of auxiliary services that may include interpretive services, assistive technology, and note taking assistance. Appropriate academic accommodations will be determined based on the documented needs of the individual. For more information, please contact the Student Disability Resource Center, Building 21, (850) 474-2387 (V/TDD), or uwf.edu/sdrc.

ENVIRONMENTAL HEALTH SAFETY

The Department of Environmental Health and Safety at the University of West Florida is dedicated to promoting a safe and healthy environment for all University students, faculty, staff, and visitors. Further information is available at uwf.edu/envhs.

ESCORT SERVICE

The Campus Escort Service is available to all University students, faculty, staff, and visitors upon request. The service is provided to any location on campus 24 hours a day, seven days a week. Escorts are provided by police officers and security personnel. The service can be requested by calling 474-2415 or from any blue light pole on campus.

HEALTH SERVICES

The Student Health Center is a medical out-patient clinic, located on campus to provide medical care for all currently enrolled students, their spouses, and children. Staff includes RN director, doctor, nurse practitioner, physician assistant, two nurses, and three office staff. Service is available on a walk-in or appointment basis. Minimal charges are assessed for laboratory tests. Hours are 8 a.m.– 5 p.m., Monday through Friday.

HOUSING AND RESIDENCE LIFE

A variety of University Housing options are available to students wishing to live on campus. UWF has six residential areas. The Residence Halls, including Martin, Argo, Pace, and Southside Villages, provide double occupancy with a private bath in each room. The Village West and East Apartments consist of apartment-style accommodations for upper division students. The Village Apartments offer two and four person furnished units. Different types of room styles, configurations, and rental rates are available to meet the needs of UWF students. Students may also choose to reside in a Living and Learning Community. Please refer to our website at uwf.edu/housing for further information. The six residential areas offer a variety of amenities including furnishings, laundry facilities, private bathrooms, refrigerator/microwave units, area offices, courtyards, student lounges, study areas, paid utilities, local telephone service, basic cable, and Internet access. Major kitchen appliances are provided in each Village Apartment. Residence Life staff, including Hall Directors and Resident Assistants (RAs), reside within all six areas to help resident students build communities. Staff members offer a variety of educational, cultural, and social programs for residents.

The Contract Process

Contracts are collected on a first-come, first-served basis. This process is based on the date the contract is received by the University in the Cashier's Office. Prospective students are urged to submit their University Housing contract as soon as they are accepted to the University. Contracts are available exclusively on the webpage at uwf.edu/housing. The term of the contract is for the fall and spring semesters (one full academic year). The University Housing contract process is

separate from the UWF admission process. Each student wishing to live on campus provides a prepayment and a processing fee when submitting the contract to the UWF Cashier's Office. For information regarding University Housing please contact the Department of Housing and Residence Life at (850) 474-2463 or visit the housing website at uwf.edu/housing.

ID/NAUTILUS CARD

The Nautilus Card is students' official university identification card. It is *not* the same as the HigherOne debit card. The card serves as a library card, access card, copy card, meal plan card, and a declining balance card. When money is deposited into an account (for general purposes or for food), the Nautilus Card can be used to make purchases at the UWF Bookstore, Dining Services locations, the Ticket Center, Postal Services, Printing Services, the Health Center, most vending machines on campus, and some laundry locations. You may also use the card to pay fees or fines at the Cashier's Office. Deposits may be made at the Cashier's Office, via your Argus account, or at one of the automatic deposit machines (ADM) conveniently located around campus. You may also elect to have excess Financial Aid funds placed on your Nautilus Card after all tuition and fees have been paid. You may view your account information online via your Argus account, including card balances, swipe history (financial and access), and meal plan information. Students registering for on-campus classes will be assessed an Annual I.D. fee of $10. If a student's card is lost or stolen, he or she must contact the Nautilus Card office immediately or contact the UWF Police after regular business hours, on weekends, and holidays. The cost for a replacement card is $15. Contact the Nautilus Card Office in Building 20W, at (850) 474-3324, or at uwf.edu/idcard.

INFORMATION TECHNOLOGY SERVICES

UWF provides students with access to a variety of quality information technology services and resources. Many of these resources are provided by the central IT department (called ITS) and others are provided by individual colleges and departments. Information on all ITS services is available on the "IT Help" tab in ARGUS and at uwf.edu/its.

ARGUS

ARGUS is the University's web portal and gateway to online services. It is a secure, single entry point for fast and easy access to web-based services. ARGUS is the place to go for campus announcements, student news, ArgoMail, course registration, eLearning courses, grades, the eDesktop virtual lab, and much more. Students are granted access to ARGUS upon enrolling at UWF and activating their ArgoNet account. ARGUS is located at argus.uwf.edu and can also be accessed from the UWF home page uwf.edu under Quicklinks.

Argonet Account and Services

ArgoNet refers to UWF's network of computer resources, data, and security. Each UWF student automatically receives an ArgoNet account upon enrolling at the University. Students can activate their ArgoNet account by going to ARGUS and selecting the link "Activate Your Account." This single sign-on account makes available to students a wide range of services. ArgoNet services include access to the ARGUS web portal, eLearning, the ArgoAir wireless network, Google Apps for Education, ArgoNet computer labs, the eDesktop virtual lab, centralized file storage, secure file transfer protocol (FTP), laser printing, electronic mail, world-wide web publishing, and Internet access. Students can manage their ArgoNet account and services and monitor their printing, email, and file storage quotas from the "My ArgoNet" tab in ARGUS.

Classroom Technology

Students making a presentation in a technology-enabled classroom may contact the ITS Help Desk for phone assistance. An online classroom list with details showing locations, equipment inventory, weekly usage, and photos is available from the "Directory" tab in ARGUS (see "View the Classroom List" under Services).

ITS Help Desk

The (ITS) Help Desk provides UWF students with technical assistance for supported software, hardware, and services. The Help Desk offers phone, email, chat, and walk-in assistance. Students can contact the Help Desk by email at helpdesk@uwf.edu or by phone at (850) 474-2075. Live Chat is located on the "IT Help" tab in ARGUS. The Help Desk is located in Building 79 on the main Pensacola campus.

Online Help
The IT KnowledgeBase is UWF's web-based resource for finding answers to questions about using University technology services. Students are encouraged to check the IT KnowledgeBase for answers to technology issues and then contact the ITS Help Desk if further assistance is needed. The IT KnowledgeBase can be found on the "IT Help" tab in ARGUS.

Policies
Students' use of UWF information technology resources is governed by the Computing Resources Usage Agreement and the Student Communications Policy. Links to these policies can be found on the ARGUS login page.

Computer Labs
UWF has multiple general-purpose computer labs along with many college-specific labs. These labs offer a variety of software to meet the academic needs of UWF students. SAIL, a general-purpose lab located in Building 79, houses over 100 computers and offers Windows PCs, iMacs, laser printers, high-speed Internet, DVD drives, and CD burners. There is a smaller lab, the Cyberlounge, located in the University Commons, Building 22 with 15 computers. Both SAIL and Cyberlounge also contain specially equipped workstations designed to serve students with special physical, visual, and auditory needs.

General Purpose Lab
A general purpose lab, with twenty-six computers, is located on the Fort Walton Beach Campus, and a general purpose student computer lab, with Internet access, is located at the Eglin Air Force Base Center. A full listing of all university computer labs can be found at uwf.edu/its under Labs and Classrooms.

eDesktop
eDesktop is a virtual computer lab that allows UWF students to access University licensed software anywhere via the Internet. When using eDesktop, it appears as though the student is sitting in front of a computer other than his or her own—one with software the student needs for his or her academic work at UWF. Without eDesktop, many software applications would only be available to students in the UWF computer labs. eDesktop is accessed from the "Software" tab in ARGUS.

LIBRARIES
The University of West Florida Libraries include the John C. Pace Library and the Curriculum Materials Library on the Pensacola campus and the Fort Walton Beach Campus Library on Fort Walton Beach campus. Through the libraries' Internet-based home page, library.uwf.edu, students at all locations have access to the catalog of materials held by all UWF libraries, to a multitude of electronic reference databases and indexes, and to full-text journal articles and books. For those materials not held locally or electronically, students may request interlibrary loan. Professional librarians are available at all locations to assist students in the effective use of materials, the computerized library system, and with retrieving materials through intercampus or interlibrary loan.

Pensacola Campus/ John C. Pace Library
The John C. Pace Library houses more than 750,000 volumes, over one million microform pieces, over 5,000 print and electronic serials subscriptions and has access to online articles from over 13,000 serials. The library is also a regional depository for U.S. and Florida government publications. The Special Collections unit contains over 900,000 unique items relating to Pensacola and to the historic West Florida region.

Emerald Coast Campus Library
The Emerald Coast Campus Library is located in Fort Walton Beach and provides access to information resources which support courses taught on that campus. The collection has over 30,000 volumes and 100 print serials subscriptions. Emerald Coast students also have access to all electronic resources including online books, databases, and journals. Items held at the Pace Library can be retrieved for use at the Emerald Coast Campus locations.

PARKING SERVICES

Visitors and guests may obtain a visitor's pass and a copy of the parking regulations at the Welcome Center, Parking Services, or the University Police Department. Fort Walton Beach Campus information may be obtained from the Cashier's Office on that campus. This information can also be found on our website uwf.edu/parking.

POSTAL SERVICES

The University operates a full-service post office housed in the University Commons. Postal services include student mailboxes (offered free of charge to students living in University housing), money orders, stamp sales, overnight Express Mail, Priority and First-Class mail, media mail, campus mail drops, package mailing and delivery services, and address changes. For additional information, contact Postal Services at (850) 474-2436 or visit the website at uwf.edu/postal/internal.

PRITING SERVICES

Students may use Printing Services for copies (b/w and color), transparencies, tabs, laminating, books, brochures, signs, banners, flyers, resumes, and graduation announcements/invitations. Customer workstations are available. Printing Services is located in Building 80, just across from Martin Hall. Printing Services accepts MasterCard, Visa, Discover, American Express, and Nautilus Cards. For additional information, call Printing Services at (850) 474-2613 or visit uwf.edu/printing/internal.

RECREATION AND SPORTS SERVICES

Located in University Park, the Health, Leisure, and Sports Facility (HLSF) is provided by the Department of Recreation and Sports Services in order to provide leisure activities for students, faculty, and staff. Six program areas are designed to meet diverse campus recreation needs, including aquatics, fitness/wellness, intramural sports, informal recreation, sport clubs, and outdoor adventure.

The Fitness Center

The $15M HLSF houses the Fitness Center, with over 10,000 sq. ft of workout space, and offers the perfect environment for personal training and fitness assessment for individuals at all fitness levels. A wide variety of group fitness classes are taught six days a week. Enjoy reasonably priced massage therapy after a strength training or aerobic workout. The Climbing Center is a state-of-the-art, indoor wall accommodating all abilities and experience levels. At 36 ft. tall, it has plenty of challenges for everyone. There is top-rope climbing as well as bouldering. Routes are changed regularly to provide new problems for regular visitors.

Intramural Sports

The purpose of intramural sports is to provide a comprehensive and diverse program of both competitive and recreational experiences. The program is designed to meet the needs and interests of currently enrolled students, faculty, and staff members. More than 40 activities are offered featuring team sports, individual/dual sports, meets, and special events.

The Sports Club Program

The sports club program provides specialized sports instruction and extramural competition. Established clubs include Aquatic Racing, Cheerleading, Climbing Club, Cycling Club, Dance, Disc Golf, Fencing, Lacrosse, Men's Rugby, Women's Rugby, Sailing, Scuba, Shotokan Karate, Sports Officials Association, Surf, Table Tennis, Waterski & Wakeboard, and Wrestling.

The Outdoor Adventure Program

The Outdoor Adventure Program provides outdoor trip experiences and training to members of the University campus community. Activities include rock climbing, canoeing, backpacking, rafting, and other nontraditional human-powered outdoor sports. No experience is necessary and all events are open to beginners.

The University Aquatic Center

The University Aquatic Center has an Olympic-sized, heated swimming pool, 1M and 3M spring boards, and a whirlpool and dry sauna. A hydraulic lift and an Easy Ladder enable use by physically challenged individuals. Curriculum includes swim lessons and advanced courses in Lifeguard Training and Water Safety Instructor. The Aquatic Racing Club invites competitors to join and the Swim Club welcomes the fitness swimmer. The informal recreation program allows access to and checkout of sports and recreational equipment. Upon presentation of a valid Nautilus Card, students, faculty, and staff may use the HLS facility, sailing and outdoor facilities, and equipment. Visit the website at uwf.edu/recreation for additional information.

SKILLS IMPROVEMENT CENTERS

The Mathematics and Statistics Tutoring Laboratory

The Mathematics and Statistics Tutoring Laboratory provides individual tutorial instruction for students who need help in mathematics or statistics courses. It is staffed by mathematics or statistics undergraduate and graduate majors. For further information contact the math department.

The UWF Writing Lab

The Writing Lab, located in Building 51, offers services to students, faculty, administrators, and staff. Any University student may use the Writing Lab for assistance with spoken and written English, including writing effective college papers. The Writing Lab offers many valuable services, which are available 40 hours a week. For additional information, contact the Writing Lab at (850) 474-2129 or send email to writelab@uwf.edu. Download the WriteAdvice Newsletters and handouts from the website: uwf.edu/writelab/.

STUDENT OMBUDSPERSON

Students seeking guidance or assistance with concerns related to their UWF experience—academic or nonacademic—should contact the Student Ombudsperson. The Student Ombudsperson, a full-time University staff member, acts as an impartial campus resource by evaluating the student's situation and assisting him/her in navigating the steps necessary to resolve the issue. If a student feels that a University policy or procedure is unfair, he/she may discuss the issue with the Student Ombudsperson. If, after reviewing the policy, the Student Ombudsperson believes that a policy change is needed, he/she will bring the matter to the attention of appropriate University official(s) for consideration. The Director of Recreation and Sports Services is the UWF Student Ombudsperson. The office is located in the Office of Recreation and Sports Services, Building 72 Room 280.

The Student Ombudsperson can assist students by doing the following:

- Explaining University policies, procedures, and appeals processes
- Outlining the student grievance process, including processes for grieving decisions related to access to courses and degree credit
- Acting as a resource/referral guide
- Listening to the student's concern and providing options for resolving the issue
- Working with the student and other campus officials to reach a resolution to the problem presented

The Student Ombudsperson does *not* do the following:

- Provide legal advice
- Have the authority to change University policies or procedures
- Have the authority to over-turn decisions made by other University officials
- Act as a student's advisor in judicial hearings or grievance processes

Student Advocate

In addition to the Student Ombudsperson, a Student Advocate is available to assist students with information regarding University policies, grievance procedures, and appeal procedures. The Student Advocate may also serve as a facilitator in the resolution of disagreements, grievances or otherwise unsatisfactory conditions. The Student Advocate, a UWF student, is appointed by the Student Government Association President. Students wishing to speak with the Student Advocate should go to the SGA Office located in the University Commons, Room 227 or call the office at (850) 474-2393.

TESTING

The Testing Office offers information on numerous testing programs, and can provide specific information about the following tests:

- Teacher Certification Examination (FTCE)
- Graduate Management Admission Test (GMAT)
- Graduate Record Exam (GRE)
- Law School Admission Test (LSAT)
- Medical College Admission Test (MCAT)
- Miller Analogies Test (MAT)
- Computerized Preprofessional Skills Tests for Teachers (PRAXIS)
- Test Of English as a Foreign language (TOEFL)

The Testing Office also has a computer-based testing center (CBT). The following exams are currently administered via computer at UWF: FTCE, GRE, MAT, PRAXIS, and TOEFL.

UNIVERSITY POLICE

The University Police Department's mission is to provide for the safety and security of students, faculty, staff, and visitors, as well as facilities security. The department provides a full range of police and security services to include uniform patrol, investigations, crime prevention, and victim advocate personnel. The department is comprised of sworn police officers, communications personnel, and security officers who are available 24 hours a day. The possession and/or use of firearms is prohibited on campus.

Campus Sex Crime Prevention Act

This federal law is aimed at tracking convicted sex offenders enrolled at or employed by institutions of higher education. The act requires sex offenders registered with the state to provide notice to the state of each institution of higher education that the offender is employed, carries on a vocation, or is enrolled as a student. To obtain additional information on this act or a listing of convicted offenders at the University, contact uwf.edu/uwfpolice/RegSexOffenders.cfm or the University Police Department.

Jeanne Clery Disclosure for Campus Security Policy and Campus Crime Statistics Act

This is a federal law requiring institutions of higher education to disclose campus security information, including crime statistics for the campus and surrounding area. Current and prospective students or employees, have the right to obtain a copy of this information for this institution. Students may review this information by accessing the federal government website at ope.ed.gov/security/search.asp (by typing in the "University of West Florida") or by accessing the University website at uwf.edu/uwfpolice. Students may also obtain a copy of this information upon request by contacting the University Police Department.

VENDING/BEVERAGE RIGHTS

Beverage and snack vending machines are located in academic and administrative buildings as well as residence halls. Only Pepsi brand beverages are being sold on the Pensacola campus. Your Nautilus Card may be used at most of the vending locations. All beverage products being used for University events should be Buffalo Rock/Pepsi products regardless of the funding source used to purchase the products. Competitive product, even if donated, should not be served at University events on the Pensacola campus. For additional information, contact the Auxiliary Services office at (850) 474-2635/2640.

VOLUNTEER UWF!

Volunteer UWF! helps to connect students with opportunities for individual volunteering, group community service projects, service-learning, alternative spring break, and community work-study positions with local non-profit agencies. Volunteer UWF! has community partners that work with a wide range of social issues. These partners have skill-building opportunities for students with every major and field of interest. Current students who register 20 or more service hours in a semester with Volunteer UWF! will have their hours recorded on their transcript.

VOTER REGISTRATION

State law requires colleges and universities to provide each enrolled student the opportunity to apply to register to vote or to update their voter registration records at least once a year. Voter registration information at the University may be obtained during orientation, or at various locations around campus, including the University Commons, Student Affairs, Registrar, the Fort Walton Beach Campus, or Advising Center. For further information on this amendment, contact Student Affairs. Students with disabilities may obtain information and assistance in filling out the cards at the Student Disability Resource Center.

ONLINE CAMPUS

The Academic Technology Center is responsible for UWF's Online Campus (OLC). The OLC supports many fully online, mobile device, and two-way videoconferencing programs. The OLC website (onlinecampus.uwf.edu) provides one-stop shopping for distance learning students to assist in planning online degrees, certificates, and educational experiences. Students may access the website for advisement, admissions procedures, registration, information about taking classes, and graduation. The OLC provides many helpful tips and links to the same quality services and student support available on our University of West Florida Campuses. Students participating in the Online Campus will have access to advisors, military education coordinators, and others to assist the online learner's overall educational experience.

Online Campus Fee

An online campus fee will be assessed each semester to students participating in fully online courses and mobile device delivered courses. This fee covers the cost of supporting Online Campus.

Online Campus Learner Support

The Online Campus provides general support services and linkages to all campus-wide support services that may be required by a distance learning student. The Online Campus can serve as the primary point of contact for fully online student needs. OLC staff can be reached via email (online@uwf.edu), toll free at 1-888-529-1823, or locally at (850) 473-7468. Students requiring more specialized support services will be transferred internally to the appropriate point of contact. The following services may be needed by the distance student:

Help Desk

The ITS Help Desk is available to provide technical support to the online learning student. Contact the Help Desk directly for technical questions through telephone (850) 474-2075 or email at helpdesk@uwf.edu.

Library

The University of West Florida Libraries offer an array of services, including access to the catalog and numerous online databases. Many of these databases include full-text journal articles or information. To access library services and databases, you must be a currently enrolled UWF student and have a UWF ID. To learn more about how the library can assist you, visit the library website (library.uwf.edu) and select ACCESS FOR DISTANCE LEARNERS. You may also contact the Library Information Help Desk at (850) 474-2424.

Military Education Advising

Military students seeking distance learning certificate and degree programs may obtain assistance with overall program planning aligning to SOC criteria along with the military students' transcripts, including school house training aligned to ACE criteria, other institutional credits, etc. Military students seeking distance learning programs and certificates can contact the Online Campus for assistance. Contact the Military Education Advisor at MilitaryAdvisor@uwf.edu.

Online Campus Programs

Graduate and certificate programs are offered through the UWF Online Campus. Acceptance to any of our online degree or mobile device or online certificate programs may provide an out-of-state tuition waiver that reduces out-of-state tuition to near that of in-state (See Distance Learning Fee Waivers information below). Students enrolling in these programs will experience interactive, personalized strategies for course delivery. Whether taking a course through UWF's eLearning Management System in an online environment or as a service member on duty in a non-Internet distance learning environment using a mobile device, the Online Campus staff and faculty are ready to assist students. Programs currently offered through the Online Campus are listed in the front of the *Catalog*.

Distance Learning Fee Waivers

Waivers to cover the out-of-state portion of assessed tuition and fees are available for qualified students enrolled in specific online degree and online or mobile device certificate programs. Students enrolled in programs and certificates listed in Eligible Programs who (1) are a Non-Florida Resident and (2) reside outside the State of Florida (proof of current place of residence required) may be candidates for the waiver. A list of eligible programs and additional information may be found at onlinecampus.uwf.edu/affordable/waivers.cfm. Students enrolled through the Academic Common Market are not eligible for the distance learning fee waiver. *Waivers must be requested and eligibility confirmed every semester—renewal of waivers is NOT automatic.*

Students must apply for a distance learning fee waiver each semester by completing the fee waiver form located on the UWF Online Campus website at secure.uwf.edu/uwfonline/Affordable/waiverForm.cfm. Students must pay all other assessed tuition and fees. Students withdrawing from a course or from the University are liable for fee payment as established by standard University policy. Students will not be liable for the amount covered by out-of-state tuition waivers awarded.

Student Responsibility for Online Learning

The success of online learning relies heavily on the commitment of the student to participate fully in class assignments, discussions, and in supporting class members while building an online learning community. Each semester students should expect to receive an email confirmation of their Online Learning course registration as well as providing details on how to learn online. The Online Campus website provides links to the UWF Bookstore as well as to all of the support services required for the student experience. Students should enter their online course(s) through the ARGUS portal at argus.uwf.edu/. Students are expected to have a UWF email account that must be checked at least three times a week to be an active participant in online courses. Students having difficulty should contact the Online Campus for guidance.

TUITION AND FEES

The schedule of tuition fees and other special fees applies to all regularly enrolled students at the University of West Florida. Required fees are established by the Florida Board of Governors, Florida Legislature, and UWF's Board of Trustees and are generally updated each fall semester. The University will make every possible effort to advertise any changes in fees when and if they occur.

RESIDENCY FOR TUITION PURPOSES

To qualify as a Florida resident for tuition purposes, the student must be a U.S. citizen, permanent resident alien, or a legal alien granted an indefinite stay by U.S. Citizenship and Immigration, and must have established legal residence in Florida for at least one year. A student who does not meet these basic criteria cannot be classified as a resident for tuition purposes. Questions regarding residency status upon initial application to UWF should be directed to the Graduate School. Questions regarding a change in residency status after enrollment should be directed to the Office of the Registrar (see Change of Residency Status).

2010-2011 ESTIMATED FULL-TIME GRADUATE STUDENT BUDGET

These two-semester student budgets are used to make initial financial aid awards, but can be adjusted later in the year if tuition figures change.

	FLORIDA RESIDENT			NON-FLORIDA RESIDENT		
	Commuter(a	On-Campus	Off-Campus	Commuter	On-Campus	Off-Campus
Tuition (b)	$5,290	$5,290	$4,155	$18,483	$18,483	$18,483
Books & Supplies	1,200	1,200	1,200	1,200	1,200	1,200
Room & Board	3,100	7,856	7,856	3,100	7,856	7,856
Transportation	1,700	1,000	1,700	1,700	1,000	1,700
Personal	2,000	2,300	2,300	2,000	2,300	2,300
TOTAL	$13,290	$17,646	$18,346	$26,483	$30,839	$31,539

[a] Commuter - residing with parents, relatives, or friends without the responsibility of rent or mortgage.
[b] Graduate tuition amount is based on 10 hours per semester and 20 semester hours per academic year (an average course load)

Note: For a student with dependents, the Financial Aid Office may increase the cost of attendance for dependent care upon submission of documentation from the provider.

2010-2011 GRADUATE TUITION AND FEES

Fee per Student Credit Hour (SCH)	Resident	Non-Resident	Alabama Residents
Base Tuition (*See below for MSN and Emerald Coast Ed.D. cohort courses)	$ 207.58	$ 835.81	$ 247.58
Activity and Services Fee	$ 12.67	$ 12.67	$ 12.67
Athletic Fee	$ 15.91	$ 15.91	$ 15.91
Building Fee	$ 2.32	$ 2.32	$ 2.32
Capital Improvement Fee	$ 2.44	$ 2.44	$ 2.44
Financial Aid Fee	$ 10.37	$ 41.79	$ 12.37
Health Fee	$ 6.62	$ 6.62	$ 6.62
Technology Fee	$ 4.78	$ 4.78	$ 4.78
Transportation Fee	$ 1.80	$ 1.80	$ 1.80
Total Per SCH	$ 264.49	$ 924.14	$ 306.49

FEES RELATED TO COURSES

Fee	Amount	Charged
*Base Tuition Fee for MSN courses	$238.78	Per Credit Hour
*Base Tuition Fee for Emerald Coast Ed.D. Cohort Courses	$269.84	Per Credit Hour
Distance Learning (Online) Fees	$ 15.00	Per Credit Hour
Equipment & Facilities Fees uwf.edu/enrserv/equipfees10-11.pdf	Varies*	Per Course
Excess Hour Fee	Base Tuition plus 50%	Per Credit Hour
Material & Supply Fees uwf.edu/enrserv/equipfees10-11.pdf	Varies*	Per Course
Registration For Zero-Hour Course Fee	Same as fee for 1 CH	Per Course

ADDITIONAL FEES

Fee	Amount	Charged
Admission Application Processing Fee	$ 30.00	Per Application
CEU Certificates	$ 3.00	Per Certificate
Collection of Overdue Accounts Fee	6.00% 4.00% 25.00%	Late Charge Collection Charge Collection Agency
Diploma Replacement Fee	$ 10.00	Per Diploma
Fines & Penalties: Library Traffic & Parking	Varies Varies	Per Occurrence
Fingerprinting Fee	Cost	Per Occurrence
Identification Card (Nautilus Card)	$ 10.00 15.00	Annual Fee Replacement Card
Intern Photo (including sales tax)	$ 5.00	Per Photo
Late Payment Fee	$100.00	Per Term
Late Registration Fee	$100.00	Per Term Registration
Payment of Tuition in Installments Service Fee	$ 15.00	Per Installment Agreement
Reinstatement Fee	$200.00	Per Term
Returned Check Fee – for unpaid checks, checks with insufficient funds	$ 25.00 $ 30.00 Greater of 5% or $40.00	$ 0.00 – 50.00 $ 50.01 – 300.00 $300.01 and up
Testing	Cost	Per Test
Transcript Fee	$ 10.00	Per Transcript

ALABAMA DIFFERENTIAL OUT-OF-STATE TUITION

Residents of Alabama are eligible for the Alabama Differential Tuition Plan, a reduced out-of-state tuition rate. For more information, new students should contact the Graduate School and current students should contact the Office of the Registrar.

Alabama residents must be a U.S. citizen, permanent resident alien, or legal alien granted indefinite stay by INS, and meet one of the following requirements to qualify for differential tuition:

> Be an independent person, according to the Federal Income Tax Code, who has established and maintained legal ties within the state of Alabama as evident by a combination of driver's license, vehicle registration, voter registration, Declaration of Domicile, etc. for the previous 12 months. If qualifying as a spouse of a legal resident of Alabama, a copy of the marriage certificate is also required.

OR

> Be a member of the Armed Services of the United States, on active military duty pursuant to military orders, who is stationed within the state of Alabama or whose state of legal residence, as evident by the HOR or LES, is Alabama. If qualifying as a spouse of a qualified armed services member, a copy of the marriage certificate is also required. The most recent IRS return (section listing dependents) may be required for dependent child.

The Alabama differential tuition rate is estimated at $306/hour for graduate courses.

PAYMENT OF FEES

Fees may be paid by any of the following methods:

- Walk-in payments Monday-Friday at the University Cashier's Office (8:15 a.m. to 4:45 p.m.) on the main campus or the NWFSC/UWF Fort Walton Beach Campus 9:00 a.m. to 6:00 p.m. Monday through Thursday and 8:00 a.m. to 5:00 p.m. Friday.
- Drop-box depositories located in Building 20 East on the main campus and at the NWFSC/UWF Fort Walton Beach Campus in the Administrative Building.
- By mail. All mail-in payments must be postmarked no later than midnight of the last day to pay fees. Mail-in fee payments postmarked after midnight will result in a late payment fee being assessed to the student. Mail payments to UWF Cashier's Office, 11000 University Parkway, Building 20 East, Pensacola, FL 32514 5750.
- Tuition, fees, and other charges may be paid by Visa, MasterCard or American Express credit cards. Payments by credit card may be made in person at the Cashier's Office on the main campus and the NWFSC/UWF Fort Walton Beach.
- Internet fee payment option. Use a Visa, MasterCard, or American Express to pay tuition, housing, parking fines, library debts, childcare, and other miscellaneous fees over the Internet. First, access your ARGUS account and then select "Pay by credit card". A $10 convenience fee will be assessed to online payments. Contact the Cashier's Office [(850) 474-3110] for additional information.

Students paying fees by mail or by drop-box depository methods must include their student number with checks and include all fee payment documents (original copies of fee waiver forms, fee deferment forms, tuition aid forms, etc.) to ensure proper and timely credit for payment. Students are expected to meet all financial obligations as they become due. UWF reserves the right to cancel the registration of students who fail to promptly meet their financial obligations to the University. Students may not pay delinquent account balances applicable to a prior academic year from financial aid awards applicable to the current academic year. All delinquent balances must be paid in full prior to the distribution of current term financial aid. It is each student's responsibility to stay informed of all registration and fee payment dates, deadlines, and other requirements by referring to the Academic Calendar, viewing Account Balance on ARGUS, and announcements printed in the Voyager or disseminated through other media from time to time. If necessary, students should inform their parents or other interested parties of the deadline dates and the necessity for meeting them.

Fees for courses remaining on the student's schedule at the close of the drop/add period must be paid not later than the close of business on the last day to pay fees. Authorized deferment status may be granted under certain conditions. Authorized deferment status must be granted and processed by the University Cashier during the regular fee payment period. Failure to pay all fees or receive authorized deferred payment status by the close of the drop/add period will result in cancellation of the student's registration. The student will be held liable for all fees assessed for courses remaining on the student's registration at the close of the drop/add period for which a partial payment of fees has occurred or an authorized fee deferment status has been granted. Under such circumstances, the student's registration will not be canceled. An administrative hold will be placed on the student's record until the course fees and the late fees are paid in full.

Fee Payment: Term E Courses

Fees for special courses (courses not offered in terms A, B, C, or D) are due by the fee payment date determined for the course. View Account Balance on ARGUS or contact the Office of the Registrar for specific date. Fees paid by mail must be postmarked by midnight on the day following the second class meeting date.

Financial Aid Delivery

Financial aid awards that are complete prior to the beginning of each semester and available for distribution, including loans and scholarships, are processed by the Cashier's Office. Tuition, fees, housing and meal plans are deducted from the financial aid proceeds and the remaining funds are sent to Higher One (UWF's contracted refund management system) for disbursement via the method chosen by the student. It is the student's responsibility to ensure that all fees and housing and other charges are paid in full by the due date. Any balance due by the student over and beyond the amount that can be covered by available financial aid must be received in the University Cashier's Office by the fee payment deadline to avoid assessment of the late payment fee. Fees postmarked by midnight on the date due will be processed without assessment of late charges. The netting of financial aid awards begins after the drop/add period. Late awards of financial aid are processed in the same manner throughout each academic term. All financial aid will be sent to Higher One for disbursement. All degree seeking students will receive an inactive UWF Debit Card at the current address listed on ARGUS. It is the responsibility of each student to keep their current address updated with the University Registrar. Address changes can be made in person or over the web.

UWF Debit Card—DO NOT DISCARD

The information on the card is necessary in order to gain access to the Higher One website. Once logged into the system via the website, the following three options are available for the disbursement of financial aid: 1) Higher One checking account (which activates the UWF Debit Card), 2) ACH funds to an existing bank account, or 3) paper check (mailed from Higher One). Note: The UWF Debit Card only becomes active if option 1 is chosen, the Higher One checking account/easy refund option. All students placed in a deferred fee payment status must confirm the deferred status with the University Cashier or Student Accounts Office. Failure to do so may result in either cancellation of student registration or the assessment of late payment fees.

Financial Aid Status

Students are able to view their grades, schedules, holds, and financial aid information on ARGUS at argus.uwf.edu.

Tuition Loan Program (TLP)

Eligible students may pay tuition and fees in two equal installments. One-half of the total tuition and fees is payable by the close of the drop/add period with the remainder payable by midterm. A promissory note must be executed to pay fees on the installment plan and must be submitted to the Cashier's Office during the fee payment period. Students must visit the Student Accounts Office to complete a TLP promissory note. Students must have a favorable credit rating with the University to be eligible for the Tuition Loan Program. A $15 service charge will be added to all TLPs. Contact the Student Accounts Office for detailed information.

Contracts and Fees Paid by Another Agency

Students who are registering for courses which will be partially or fully paid by their sponsoring agencies must bring the contracts or authorization forms and partial payments, if applicable, to the Cashier's Office during the registration period. Students must confirm the fees-pending status with the Cashier's Office during the designated fee payment period.

If the authorization is to be mailed to the Cashier's Office by the agency, it must be postmarked by midnight on the last day to pay fees. The student must confirm third party billing status with the Cashier's Office during the fee payment

period. Failure to meet these requirements will result in the assessment of the late payment fee. Any change in method of fee payment after the close of the drop/add fee payment deadline will result in a late payment assessment of $100. An example is to change from a VA deferment or tuition loan to another type of third party billing arrangement.

Delinquent Balances

Students who have delinquent balances at the University (loans, library fines, traffic fines, etc.) will have their diplomas, grades, and transcript requests held until satisfactory settlement has been made. A student owing a delinquent balance of $100 or less and which is not more than 120 days past due, will be allowed to register prior to paying the balance. The balance due must be paid by the close of the fee payment period. Failure to do so will result in future registrations being held as well as holds being placed on diplomas, grades, and transcripts until the account is paid in full.

Tuition Waivers

Florida National Guard

Certain members of the active duty Florida National Guard may be exempt from the payment of one-half of the cost of tuition and fees for courses on a space-available basis only. Students using this waiver may not register for courses subject to the waiver until the last day of registration. Certain members of the Florida National Guard may qualify for that portion of fees not otherwise waived to be paid directly by the Florida Department of Military Affairs when authorized by that agency. An approved authorization billing must be presented to the Cashier's Office on the main campus or Fort Walton Beach Campus by the close of the drop/add fee payment period. Authorization presented after that day will be subject to the assessment of the late payment fee.

Graduate Assistantships

Graduate assistants who have at least a .25 FTE appointment are eligible for a matriculation fee waiver which applies to a portion of the in-state tuition. Out-of-state graduate assistants may be eligible for a waiver of the out-of-state portion of the tuition. Contact the Graduate School or the academic department for further information.

Senior Citizens—Florida Residents

Individuals who are 60 years or older and who meet Florida residency requirements may enroll on a space available basis without payment of the application and registration fee. Contact the Office of the Registrar for more information.

Special Risk Dependent

Dependent children of special risk members as defined in Sections 112.190 and 112.191, Florida Statutes (law enforcement officers and fire fighters), killed in the line of duty are eligible for waiver of tuition and fees under certain circumstances. Contact the University Controller regarding eligibility for these waivers.

State Employee Six-hours Free Course Benefit

State Employees are eligible for six hours of tuition free courses per semester. Refer to the Registration section (State Employees) for detailed procedures and policies.

UWF Employee Tuition Waiver Program

Eligible full-time employees are permitted to take up to six credit hours of graduate coursework at UWF per term (fall, spring, summer) without payment of tuition or mandatory fees. Employees may also assign up to three of their graduate credit hours to their dependents. Courses such as directed studies, practicums, internships, music and theatre performance, continuing education, and other one-on-one course situations such as theses and dissertations are not authorized.

Late Registration and Late Payment Fees

Provided documentation is received by the institution to indicate extenuating circumstances justifying a waiver, the University Controller may waive the late payment fee and the University Registrar may waive the late registration fee when it is determined that one or the other is true:

- The University is primarily responsible for delinquency of a student's account
- Extenuating circumstances exist beyond the control of the student.

Deferred Payments

Deferred payment status for tuition and registration fees may be granted upon application by the student on the following grounds:

Veterans Deferments

Deferred payment status for tuition and registration fees may be granted upon application by the student on the following grounds:

- Deferral eligibility is granted to students receiving veterans' educational assistance benefits from federal or state assistance programs if aid is delayed in transmission to the student through circumstances beyond the student's control.

- Veterans and other eligible students receiving benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic semester. A 90-day deferment will be issued for the spring and fall semesters and a 30-day deferment will be issued for summer and mini terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date and not after the last day of the semester.

A veteran may request a deferment (promissory note) via their VA Enrollment Certification in ARGUS or at the VSO for the amount of tuition and fees. The VSO will submit the approved promissory note to the University Cashier prior to the fee payment deadline. Failure to make payment by the deferment due date will result in $100 late payment fee. Students who do not make payment or request a deferment may be deleted for non-payment. Students who are deleted for non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee.

Any change in a VA deferment to a National Guard or other military billing status after the fee payment deadline will result in the assessment of the late payment fee of $100.

The University reserves the right to deny deferral status to students who have established an unfavorable credit rating.

Third Party Billings

Deferment is permitted provided formal contractual arrangements have been made with the University for payments by an approved third party. The University Controller is charged with the responsibility for negotiating third party contracts.

Refund of Fees

The late payment fee is nonrefundable unless waived by the University Fee Appeals Committee. Requests for refunds and other appeal actions to be considered by the University Fee Appeals Committee must be submitted within six months after the end of the semester to which the refund or appeal action is applicable. Requests made after that deadline will not be considered.

Full refunds will be made to the student when a course is canceled by the University or when a student is denied access to a University course.

During the Drop/Add Period the per credit hour fee will be fully refunded for each semester hour or course(s) dropped during the drop/add period.

After the Drop/Add Period a refund of 25 percent of the total fees paid will be made if withdrawal from all courses is completed prior to the end of the fourth week of classes. Withdrawals are processed in the Office of the Registrar.

In the following instances, the per-credit-hour fee will be refunded upon appeal with appropriate documentation:

Call to or enlisted in active military service; Death of the student or death in the immediate family (parent, spouse, child, sibling); Complete withdrawal of the student from all courses due to illness of the student that is confirmed in writing by a physician, stating that completion of the term is precluded; or Exceptional circumstances upon approval of the University Fee Appeals Committee. The student must submit a written appeal to the University Fee Appeals Committee via the Student Accounts Office. Appeals for refunds must be supported by appropriate written documentation.

Return of Title IV Funds (Student Responsibility)

The University of West Florida is required by Federal policy to monitor financial aid students who receive Title IV Funds and withdraw from all courses during the semester. Students who withdraw from all courses prior to the 60% point in the semester are not eligible for 100% of their financial aid.

A calculation will be completed based on the last date of attendance to determine how much the student will be required to repay. The Student Accounts Office will determine the amount and bill the student. Contact Student Accounts Office for exact dates and repayment requirements. (850-474-3441 or stuacct@uwf.edu). Students who have outstanding balances are not allowed to register for classes until they have satisfied their debt.

Appeal for Late Fee Assessments and Refunds

Student appeals for late payment of fees, refunds of tuition, and other charges after the refund deadline are referred to the University Fee Appeals Committee. All appeals should be submitted in writing, with attached supporting documentation, to the Student Accounts Office. Fee appeals forms are available in that office and on the web at the Registrar's home page, uwf.edu/registrar. The University Fee Appeals Committee reports to the Controller who has final authority over all appeals for late payment of fees. The filing of an appeal before the Fee Appeals Committee does not extend the due date for fees, tuition loans, VA deferments or other charges while awaiting a decision by the Committee. Such charges not paid by the due date will be assessed the late payment fee. All questions regarding fee appeals should be directed to the Student Accounts Office at (850) 474-3441.

MILITARY AND VETERAN'S INFORMATION

Military Personnel

The University of West Florida recognizes that many active duty military personnel face formidable barriers in the pursuit of a college degree. As part of the University's continuing commitment to educational opportunities for military personnel, UWF offers a program designed to assist active duty military men and women in the quest for master's, specialist, or doctoral degrees. Many departments have agreed to offer degrees through a system tailored to the specific needs of active duty military personnel. Previous college credit, work experience, service schools, and other forms of nonacademic experiences will be considered for college credits. For further information, contact the Graduate School.

Servicemembers Opportunity Colleges

The University of West Florida has been designated as an institutional member of Servicemembers Opportunity Colleges (SOC), a group of more than 1800 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As a SOC member, UWF recognizes the unique nature of the military lifestyle and is committed to easing the transfer of relevant course credits and crediting learning from appropriate military training and experiences. SOC has been developed jointly by educational representatives of each of the armed services, the Office of the Secretary of Defense, and a consortium of 12 leading national higher education associations. It is sponsored by the American Association of State Colleges and Universities (AASCU) and the American Association of Community Colleges (AACC).

Veterans' Benefits

The University of West Florida is approved by the Florida Department of Veterans Affairs (DVA) for the education of veterans, active duty personnel, reservists, and eligible dependents under current law. UWF's Veterans Services Office (VSO) is part of the Office of the Registrar at UWF, not the DVA. The VSO is the point of contact for students receiving benefits from the DVA. The office has a professional staff augmented by veteran peer counselors to assist in providing information about entitlements, filing claims to the DVA, and certifying enrollment. The VSO monitors the academic progress of students receiving DVA educational benefits. Students who receive DVA benefits are subject to different academic regulations and should be aware that auditing courses, enrollment status, withdrawals, repeating courses, changing degree programs and other actions may affect eligibility for educational benefits.

Educational Objective

To receive educational benefits from the DVA, the student must be pursuing an approved degree, or be enrolled in a VA certified certificate program at the University. VA will only pay benefits for classes required for graduation or for completion of an approved VA certificate program. Required courses must be reflected in a student's SASS audit before they can be certified for VA benefits. Substitutions to the SASS audit must be made prior to VA certification. To avoid delays in a certification it is a student's responsibility to ensure that required classes are being taken. Failure to do so may prohibit certification of classes for future semesters. Students who do not have an on-line SASS audit must submit a signed program description sheet.

Tuition Deferment

Deferred payment status for tuition and registration fees may be granted upon application by the student on the following grounds. The University reserves the right to deny deferral status to students who have established an unfavorable credit rating.

Deferral eligibility is granted to students receiving veterans' educational assistance benefits from federal or state assistance programs if aid is delayed in transmission to the student through circumstances beyond the student's control. Veterans and other eligible degree-seeking students receiving benefits on active duty and under Chapters 30, 32, 33, 35, 1606, and 1607, U.S.C., are eligible for one deferment each academic semester.

A 90-day deferment will be issued for the spring and fall semesters and a 30-day deferment will be issued for summer and mini terms. An additional deferment extension may be issued if there is a delay in the receipt of benefits provided the extension is requested prior to the deferment due date and not after the last day of the semester.

2010-2011	A Term	B Term	C Term	D Term
Fall	Nov 22	Sept 21	Nov 12	
Spring	Apr 04	Feb 03	Mar 29	
Summer	Jun 07	Jun 07	Jul 21	Jul 12

A veteran may request a deferment (promissory note) via their VA Enrollment Certification in ARGUS or at the VSO for the amount of tuition and fees. The VSO will submit the approved promissory note to the University Cashier prior to the fee payment deadline. Failure to make payment by the deferment due date will result in $100 late payment fee. Students who do not make payment or request a deferment may be deleted for non-payment. Students who are deleted for non-payment may appeal for reinstatement and will be assessed a $200 reinstatement fee.

Any change in a VA deferment to a National Guard or other military billing status after the fee payment deadline will result in the assessment of the late payment fee of $100.00.

Academic Progress

University academic standing is discussed in the academic policies section of the Catalog. However, students receiving veteran's benefits are held to the additional requirements set forth below.

VA Academic Probation

A VA student will be placed on VA Probation if the student's semester grade point average (SGPA) or cumulative grade point average (CGPA) falls below 3.0. This is an initial warning.

VA Academic Probation Extension

A student who receives consecutive semester GPA's below 3.0, but has a Cumulative GPA of at least a 3.0 will continue on VA academic probation.

VA Academic Suspension

A student who receives consecutive semester GPA's below the 3.0 and has a Cumulative GPA below a 3.0, will be placed on VA academic suspension. If the student receives written counseling from their academic counselor and provides that written documentation to the VSO the student may remain eligible for educational benefits for an additional semester.

VA Termination

A student's VA benefits will be terminated if the student's Cumulative GPA remains less than a 3.0 for more than two consecutive semesters. The VSO will notify the DVA of unsatisfactory progress and educational benefits will be terminated.

Advance Payment

Advance payment of DVA benefits may be available to new students and those students who were not enrolled in the previous semester. Application should be made through the UWF Veterans Services Office no later than 45 days before the first day of classes of the anticipated enrollment semester.

Reporting Requirements

Recertification of benefits is not automatic and must be requested each semester. It is the responsibility of each student to keep the UWF Veterans Services Office informed of the following. To prevent overpayment and subsequent indebtedness to the Federal Government, it is important to notify the Veterans Services Office immediately of changes that may affect the student's eligibility for benefits.

Class Registration

After registering, eligible students should request a VA certification through Argus under the MY info tab. Students who don't have an Argus account should print the VA enrollment certification request found on the UWF VA web-site. For questions, students can visit or email the UWF Veterans Services Office for information and help. The earlier a student registers and provides the registration information to the VSO, the earlier certification paperwork can be forwarded to the DVA.

Changes to Schedule

Any additions, drops, withdrawals, or other interruptions must be immediately reported to the UWF Veterans Services Office by the student.

Failure to Attend Class

Routine class attendance is required for those receiving DVA benefits. Students who are unable to attend class(es) for an extended period of time should notify the instructor(s) and the Veterans Services Office.

Change of Major

The DVA must be notified when a student changes a major. These changes may be approved if there is minimal loss of credit hours.

Change of Address

If a student's address changes, both the DVA and UWF must be notified.

Courses Not Eligible for Benefits

Courses not meeting University requirements for graduation cannot be certified to the DVA for benefits payment. Although not all inclusive, the following list reflects types of courses that will not be certified to the DVA:

- Courses not on the student's SASS audit or Program Description Sheet (PDS) unless an addendum is provided before the last day of the drop/add period
- Repeated courses that have been previously completed with a grade of "D-" or higher unless the student's program requires a higher grade; this includes courses transferred from other colleges
- Courses taken to fulfill requirements at another institution unless a transient authorization is received
- Courses taken on an audit or noncredit basis or courses in which the permanent grade is "non-punitive," (e.g., "W" or "V")
- Courses for which an "I" or "I*" was assigned, but not changed to a letter grade (A through F) within one year of the completion of the semester; in this case, the DVA will be notified retroactively

Certificate Programs

Not all certificate programs are approved for VA benefits. Check with the Veterans Services Office for further information.

Class Attendance

It is the student's responsibility to inform the instructor(s) of absence from class(es) prior to, or as soon as possible after, the absence. Students must check with their respective instructor(s) regarding the attendance policy for each class. If a student receiving DVA benefits is found in violation of the policy, the DVA will be notified and benefits may be reduced accordingly.

Off-Term Courses

Off-term courses are those beginning and/or ending on other than the regular semester dates. These are referred to as B, C, D, or E term courses. Students should be aware that the DVA review is made on a term-by-term basis and not by semester. Taking B, C, D, or E term courses may affect the student's training rate for pay purposes and eligibility for break pay. Since this varies by benefit chapter, students should contact the VSO to determine their training time and qualifications for full benefits.

REGISTRATION AND RECORDS

The Office of the Registrar maintains the official academic records of all students and course registrations for currently enrolled students. Official student information is retained in the Office of the Registrar. Students are encouraged to contact the Office of the Registrar with questions concerning academic policies and procedures of their current registration, enrollment, or academic records. Registration dates are published in the Academic Calendar.

ACADEMIC ADVISING

The University of West Florida is committed to quality academic advising to assist all students in attaining their educational goals. Graduate students are advised by faculty in their program department. All students are encouraged to seek academic advising on a regular basis.

University Responsibilities

The faculty, administration, and staff share a responsibility to provide accurate information and effective advice. The Division of Enrollment Services is responsible for providing students, faculty and other advising staff with accurate information in the Catalog, Navigation Guide, and other publications.

The advisors in the College of Business, College or Arts and Sciences, and College of Professional Studies are responsible for acting as an information and referral resource to provide students with timely and accurate information on University-wide requirements, policies, procedures, and referrals to appropriate services.

College and Department Responsibilities

The dean of each college and chairperson of each department ultimately are responsible for ensuring that academic advice is available and accessible to all students within the college or department.

Student Responsibilities

Students ultimately are responsible for knowing and fulfilling all University, college, and program requirements for graduation. Students should use the Catalog, advisors and other resources for information.

STUDENT TECHNOLOGY AND ELECTRONIC MAIL REQUIREMENT

UWF prepares students for current and future business and life applications using basic technology. Each UWF student is expected to do the following:

- Activate a UWF ArgoNet account
- Access the ARGUS web portal a minimum of 2-3 times a week
- Access UWF email account (ArgoMail) 2-3 times a week
- Have basic word-processing knowledge

Student use of UWF information technology resources is governed by the Computing Resources Usage Agreement and the Student Communications Policy. (See “My ArgoNet” tab in ARGUS). The University uses email for both formal and informal communication with students. Each student, upon enrolling, is issued a UWF email account. Students are expected to regularly check their UWF email account (ArgoMail) for University business and official University communications. UWF accounts remain the property of the University of West Florida. Students should expect that instructors may request assignments be completed on a computer and/or be turned in via email rather than printed. Instructors should ensure that basic assignments can be completed using software packages currently available in the ArgoNet labs or virtual lab “eDesktop” environment.

ARGUS

ARGUS is the University's secure, single entry point for fast and easy access to web-based services. Students may register, withdraw, drop and add classes, view the account balance, view grades, and more through ARGUS. Upon enrollment, each UWF student automatically receives an ArgoNet account. To access ARGUS, students must activate their "new user" ArgoNet account from argus.uwf.edu. Students manage their ArgoNet account and services from the "My ArgoNet" tab in ARGUS. Students are responsible for information and actions taken through ARGUS.

ENROLLMENT DEFINITION

Enrollment is defined as consisting of three major components:

- Application - Students provide information requested by the University for purposes of establishing and administering academic and financial relationships that exist between the University and its students.
- Registration - Students register for courses and provide information needed to assess fees and tuition.
- Payment of Fees - Students must pay all assessed tuition and other special fees and satisfy all due and/or delinquent amounts payable to the University.

Students who withdraw will be considered no longer enrolled at the time of withdrawal.

LATE REGISTRATION

Registration should be initiated prior to the first day of classes for any given semester to avoid the late registration fee. Students who do not register by the close of business the last day of registration, or who do not pay fees by the last date of fee payment, will be assessed a nonrefundable late fee of $100.

CONTINUOUS ENROLLMENT

Consecutive continuous enrollment is defined as enrollment in the University without a non-enrollment period of three or more semesters (summer semester included). Credits earned at other institutions during any semester, while not registered at UWF, will not constitute continuous enrollment at UWF.

CLASSIFICATION OF STUDENTS

The classifications for graduate students are the following:

MASTERS: A student admitted to a graduate program and completing work at the masters level.

SPECIALIST: A student admitted to a specialist program and completing work at the specialist level.

DOCTORAL: A student admitted to the doctoral program and completing work at the doctoral level.

NON-DEGREE STUDENT: A student who currently is not a candidate for a degree or diploma.

DEADLINE DATES/ACADEMIC CALENDAR

Each student should be aware of the deadline dates in the current official Academic Calendar as published in the Catalog. The Academic Calendar contains deadline dates for admission applications, changes in residency status, class registrations, fee payments, course scheduling changes (drop/add), course withdrawals, standardized test registrations, thesis and dissertation submissions, and graduation applications. The calendar is also available from the Registrar's home page at uwf.edu/registrar.

Graduate students should obtain from their colleges and departments a detailed list of deadlines for the programs in which they are enrolled. Appeals related to deadlines for registration, drop and add, and other academic deadlines as published in the Academic Calendar should be addressed to the Office of the Registrar.

NON-DEGREE STUDENT REGISTRATION

The non-degree classification is used only by those students who have completed a baccalaureate degree and who will not be working toward a graduate degree at UWF. Successful completion of courses in this classification does not provide a basis for degree status.

Graduate students may petition their departments and colleges for a maximum of 12 semester hours to apply toward the graduate degree.

Non-degree students are subject to the student policies stated in the Catalog and Student Planner and Handbook. Non-degree students should review the Confidentiality of Student Records and Directory Information to understand privacy information. Course work completed as a non-degree student will be included in the graduate UWF GPA, determined by the level of the course. International students in F-1 status should consult with the Director of the International Student Office regarding enrollment as a Non-Degree Student.

All Pensacola campus students are required to purchase a Nautilus Card.

Parking a vehicle on campus requires a parking decal which may be purchased at the Cashier's Office.

Compliance with the immunization policy is required prior to registration. Contact the Office of Student Affairs for information.

To be considered for degree status, students must contact the Graduate School and complete the required application.

Returning non-degree students who do not maintain continuous enrollment must file a new non-degree student application in the Graduate School. The non-degree student registration period begins approximately two weeks prior to the first day of classes for the semester – see Academic Calendar for specific dates.

REGISTRATION POLICIES AND PROCEDURES

The *Navigation Guide* provides information and instructions for enrollment at on and off-campus locations. Course offering information is available at uwf.edu/registrar.

Degree-seeking students are responsible for arranging appointments with their assigned academic advisors prior to registration. Degree-seeking students who are enrolling for their initial semester at UWF must meet with their advisor prior to registration to discuss degree plans and have the advising hold deleted. Appointments can be made through the academic departments, or for off-campus students, through the staff of the Emerald Coast campus. Degree-seeking students have priority for registration and enrollment.

Registration Holds

A registration hold will be placed on the student record for one or more of the following reasons: academic suspension, incomplete admissions documents, financial obligations (parking tickets, library fines, etc.), administrative discipline, failure to comply with the immunization requirements, academic advising, student athlete monitoring, etc. A registration hold must be lifted or deleted prior to registration.

Students are able to view their grades, schedules, holds, and financial aid information in ARGUS. Students should contact the appropriate office and arrange for removal of the registration hold to register for classes, receive official transcripts, grades, and diplomas.

COURSE LOAD/MAXIMUM HOURS TAKEN PER SEMESTER

GRADUATE

Graduate students may not enroll for more than 12 semester hours in a semester without the written permission of the academic advisor and the chairperson of the graduate program. For certification of enrollment, nine semester hours is considered full-time for a fall or spring semester; six semester hours for a summer semester. Students who withdraw are not considered enrolled in the course once the withdrawal has been processed.

DOCTORAL PROGRAM

For full-time status, the University requires a doctoral student to register for a minimum of nine graduate semester hours for fall and spring semesters and six graduate semester hours for summer semesters. Full-time status for students in the dissertation phase of the doctoral program requires six dissertation semester hours. The maximum number of hours for which a doctoral student may register in any given semester without special permission is twelve. To register for more than twelve hours, students must complete an “Ed.D. Student Petition” form. Approval from the committee chair and the College of Professional Studies Graduate Office is required.

CERTIFICATION OF ENROLLMENT FOR GRADUATE STUDENTS

The University of West Florida reports enrollment status based on the definitions listed below:

	Fall & Spring	Summer
Full time	9 SH or more	6 SH or more
Half time	6-8 SH	N/A
Less than half time	1-5 SH	0-5

COURSE PREREQUISITES/COREQUISITES

Many courses require prerequisites and/or corequisites. These requirements are included in the specific course descriptions. A prerequisite is a course in which credit must be earned prior to enrollment in a specific course. A corequisite is a course which must be taken concurrently with or prior to a specific course. Students must have completed the required prerequisites and register for, or have completed, corequisites prior to registration for the specific course. It is the student’s responsibility to review prerequisite and corequisite information as stated in the course description.

DIRECTED INDEPENDENT STUDY

Students who wish to study or do research under the direction of a faculty member for topics or areas not detailed in regularly scheduled courses may make arrangements for such study as a directed independent study. Credit hours and requirements are determined by the director of the study. Registration requires the approval of the faculty member who will supervise the study and the student's advisor. In the College of Business, all directed independent studies also require the approval of the appropriate department chair. Directed studies are available for approved subject area prefixes and levels and are designated by the last three digits of the course number. Example: COP 5905

NON-DEGREE STUDENTS/GRADUATE LEVEL COURSES

Non-degree students may enroll in a 5000-6000 level course. Many advanced courses require that the instructor grant permission to each enrolled student, including non-degree students. Non-degree students have the responsibility to ensure they have the appropriate preparation for the courses and should discuss enrollment with the instructor prior to registration.

PASS/FAIL OPTION

Graduate students may not elect the pass/fail option.

DROP/ADD CHANGES

Class schedule changes may be processed during the registration period and the scheduled drop/add period. Students may choose to change their class schedules on ARGUS or by completing "Drop/Add" forms and submitting them to the Office of the Registrar. If the drop/add results in a change of fees, the student must pay the additional fees as assessed. Any refunds of fees due to dropping a course prior to the end of the drop/add period will be issued by the Cashiers Office. Appeals to drop/add period should be addressed to the Office of the Registrar.

WITHDRAWAL

From a Course

A student may withdraw from a course while remaining in other course(s) through the tenth week of instruction of any fall or spring semester (see calendar dates for summer semester and short term dates). A grade of "W" will be assigned during this period. Students may withdraw through ARGUS or obtain a form in the Office of the Registrar, NWFSC/UWF Fort Walton Beach Campus, and Eglin Center. Individual course withdrawals may not be processed after the published deadline. Appeals should be directed to the Office of the Registrar. Students who do not officially withdraw will be assigned a standard letter grade. Students are encouraged to consult with their advisor prior to withdrawing from classes and to contact the Cashier's Office for questions regarding fee liability or financial aid awards. Students who withdraw are not enrolled as of the date the withdrawal is processed.

Doctoral students who have an excessive number of class withdrawals will be reviewed by the Ed.D. Program Office.

From All Courses in a Term (University Withdrawal)

Currently enrolled students may withdraw through ARGUS. Students withdrawing from all courses prior to the end of the 4th week of any semester will receive a grade of "WR" (partial refund). See Academic Calendar for specific dates. A grade of "WR" is not computed in the UWF GPA.

Students withdrawing from all courses beginning with the fifth week through the end of the tenth week of any fall or spring semester will receive a grade of "W" in each course (see calendar for summer semester and short term dates). Students withdrawing after the designated automatic "W" deadline through the last day of instruction will be assigned a grade of "W" or "WF" at the discretion of the course instructor(s). Grades of "WF" are computed in the UWF GPA. Withdrawal from all courses does not prevent registration for future terms.

Students are not required to apply for readmission unless they have not enrolled at UWF for three or more consecutive academic semesters (including summers). Students are encouraged to consult with their advisors before withdrawing

from classes and to contact the Cashier's Office for questions regarding fee liability or financial aid awards. Students who withdraw are not enrolled as of the date the withdrawal is processed.
If a doctoral student withdraws from all courses within a semester, the semester will not be counted as a semester to fulfill the residency requirement.

Appeals for Fee Refunds

Fee appeals should be addressed to the Student Accounts Office. Appeals will considered by the Fee Appeals Committee for documented, extenuating circumstances.

Students may be allowed to withdraw from a course or the University (all courses) with a full refund of tuition fees for the following situations (documentation required):

- Call to active military duty or enlistment in active military service (copy of official orders or letter signed by commanding officer on official military letterhead required).
- Death of the student or death in the immediate family (parent, spouse, child, sibling—copy of obituary notice or death certificate required); or
- Student's illness of such duration and severity, as confirmed in writing by a physician, that completion of the term is precluded.

Withdrawal from courses at the University does not automatically relieve the student from fee payment liability in the case of deferred payment status such as VA notes, tuition loan notes, and financial aid pending status. Students in a deferred status should consult the Cashier's Office regarding fee liability.

Withdraws for Active Duty Military Service

In the case of a student called to active duty military service or change of orders due to military conflict within the semester, the student must contact the Office of the Registrar and provide a copy of military orders immediately. Students will have the option of withdrawing with a complete refund, withdrawal with a grade of "W", or accepting incomplete grades to allow the student to complete the courses at a later date. Students will be asked to notify the University of the desired option.

The transcripts of students who have contacted the Office of the Registrar as stated above and are subsequently withdrawn, awarded refunds, or given incomplete grades will be annotated with appropriate statement indicating action taken was due to military active duty service.

CANCELLATION OF REGISTRATION

Students may cancel registration (drop all courses) by dropping all courses through ARGUS or notifying the Office of the Registrar in writing prior to the last day of drop/add. Students who cancel their registration within this time frame are not liable for tuition.

The University may cancel the registration of a student whose fees are not paid or who has not received authorized deferred payment status as of the close of the fee payment period. Students whose registrations are so canceled may appeal for reinstatement.

REINSTATEMENT FOR CANCELED REGISTRATION

Reinstatements for canceled registrations are not automatic. To be considered for reinstatement after the deletion of courses for non-payment, requires approval of the University Fee Appeals Committee. The student must submit a written appeal to the University Fee Appeals Committee outlining the reason for the request for reinstatement, including an explanation of why fees were not paid within the designated period. If the reinstatement is approved the student must make payment of all registration fees for the identical classes for which registration was previously canceled, the $100 late registration, the $100 late payment fees, and payment of all delinquent liabilities. Appeals for reinstatement may be submitted to the the Controller's Office. Appeals must be submitted prior to the end of the semester for which reinstatement is requested. The Fee Appeals form is available through the Registrar's home page at uwf.edu/registrar.

FINAL EXAMINATIONS

Final examination periods consist of 150 minutes for courses taught in Term A of the fall and spring semesters. Exams are scheduled during the week of final exams of the fall and spring semesters and during the last week of classes of the summer semester (see the Academic Calendar). Final exams are listed on students' registration schedules and may be viewed on ARGUS. Final examinations may be scheduled on Saturday.

ACCESS TO GRADES

Currently enrolled students may access their grades the day after grades are due (see Academic Calendar) via ARGUS. Contact the Office of the Registrar for more information. Grade mailers will be mailed upon request and may be ordered through ARGUS.

TRANSCRIPTS

Official transcripts may be ordered via the web, by telephone, by mail or in person. There is a fee for each official transcript. The University does not accept facsimile requests for transcripts. Students may obtain an unofficial transcript at no charge through ARGUS or LightHouse. Refer to uwf.edu/registrar under transcripts for additional information and instructions for ordering a transcript.

UWF transcripts include all course work taken at UWF, degrees awarded, and accepted transfer credit (institutions, courses, and grades). UWF transcripts only list UWF's grade point averages. In order to process a request for a transcript, students should submit the request via ARGUS or Lighthouse.

Students may also elect to suppress specific information that is normally reflected on the academic transcript. Beginning in Fall, 1993, the University began listing transfer courses on the UWF transcript. Students may elect to suppress their date of birth, transfer work, or a combination of both from appearing on the UWF transcript. The student must indicate this "option" at the time a transcript is requested. Summary information (the number of hours transferred) will remain on all the transcripts. Each time students request transcripts they must indicate on the request the information which should be suppressed. The following statement will appear at the end of the transcript for students who select the option of suppressing transfer credit: "This student has requested that this transcript includes only course work taken at UWF." Options for suppression of information are available only for hard copy transcripts and are not available for electronic (FASTER formatted) transcripts used in the State of Florida.

STATE EMPLOYEES

Employees of the State of Florida who are classified as permanent full-time employees may be allowed to register on a space-available basis at the University for six semester hours of tuition-free courses. Admission, readmission, and registration information may be obtained by contacting either the Graduate School or the Registrar. Students using the state employee fee waiver may register beginning the first day of classes. Late registration fees will be waived by the Registrar's Office when the waiver form is submitted. Since registration is on a space available basis, waivers will not be applied to any course for which the student is registered prior to the first day of classes. Permission to enter a closed class is not permitted for state employee registrations. Waivers may not be used for directed studies, internships, theses, and dissertations. State employees attending the Pensacola campus are required to purchase a Nautilus Card and parking decal. State employee waiver forms must be submitted to the Office of the Registrar no later than the close of the drop/add period. It is the responsibility of the employee to ensure that the waiver form includes the appropriate courses for which a student is registered. When necessary, the student must contact the employing agency for a corrected or a supplemental waiver form for courses not included on the original waiver form. It is suggested that alternate courses be included on the original waiver form in case an employee may not be able to register for one or more requested courses. The waiver form will not be processed if a state employee pre-registers and then submits a waiver form for the pre-registered course(s) after the fact. Specific details and forms are available at uwf.edu/registrar/stateemployee.cfm.

SENIOR CITIZEN TUITION WAIVER

U.S. citizens, permanent resident aliens, or legal aliens granted indefinite stay by INS, who are 60 years old or older and who meet the Florida residency for tuition purposes may enroll in courses under the State of Florida's Senior Citizen

Tuition Fee Waiver program. A Florida "resident for tuition purposes" is a person who has established and maintained legal residency in Florida for the previous twelve-month period. Courses taken by senior citizens under the Senior Citizen Tuition Fee Waiver are on an audit basis. No academic credit shall be awarded for attendance in classes for which fees are waived. Waiver of fees is not authorized for the following kinds of courses: directed studies, practicums, internships, music and theatre performance, Continuing Education, and other one-on-one course situations such as theses and dissertations. The free course benefit may be used on a space available basis only. Students may not pre-register for courses for which they plan to use a Senior Citizen Tuition Fee Waiver. The waiver form will not be processed if a senior citizen pre-registers and then submits a Senior Citizen Tuition Fee Waiver Form for the pre-registered course(s) after the fact. Students attending classes on the Pensacola campus must purchase a Nautilus Card and parking decal. Students should contact the Office of the Registrar or visit uwf.edu/registrar/seniorcitizen.cfm for detailed information and for the Senior Citizen Tuition Waiver Form.

ACADEMIC COMMON MARKET

The Academic Common Market is an interstate agreement among southern states for sharing academic programs. Participating states enable their residents who qualify for admission to enroll in specific graduate programs in other states on an in-state tuition basis. Arrangements traditionally are limited to unusual programs or programs not offered within the state of residence. To enroll as an Academic Common Market student, an applicant must obtain certification from the common market coordinator in the student's home state.

The Academic Common Market serves residents of the following 16 southern states: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

Students must be admitted to the appropriate degree program by the Graduate School, and the letter of certification must be received in the Office of the Registrar before the first day of classes for the effective term. For information on the state authorization of programs or on the identity of the coordinator for a particular state, contact the Graduate School. UWF programs affiliated with the Academic Common Market can be found at sreb.org/programs/acm/acmindex.aspx.

SOUTHERN REGIONAL EDUCATION BOARDS (SREB) ELECTRONIC CAMPUS

The University of West Florida is a participating member of the SREB's Electronic Campus, which is a marketplace for courses and programs offered by colleges and universities through electronic methods. Nearly 50 colleges and universities offer courses through SREB Electronic Campus, enabling students across the South to take courses without leaving their hometowns. All courses are offered by accredited colleges and universities in the Southern Regional Education Board states and meet the Principles of Good Practice developed by the SREB Electronic Campus. Students may access the SREB Electronic Campus through the Internet at electroniccampus.org.

SREB Electronic Campus member states are Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia.

INTERNATIONAL STUDENT EXCHANGE PROGRAMS

Students may participate in a variety of international learning experiences. Information about international exchange programs is available through the Office of Diversity and International Education. Further information is available at uwf.edu/intered/.

TRAVELING SCHOLAR PROGRAM

The University participates in a traveling scholar program which enables graduate students to take advantage of special resources available on another campus, but not available on the home campus. Examples are special course offerings, research opportunities, unique laboratories, and library collections.

A traveling scholar's graduate advisor will approach an appropriate faculty member at the proposed host institution and recommend the scholar for a visiting arrangement. After agreement by the student's advisor and the faculty member at the host institution, graduate deans of both institutions will be fully informed by the advisor and have the power to approve

or disapprove. A student will register at the host institution and will pay tuition and/or registration fees according to fee schedules established at that institution. Credit for the work taken will be recorded at the home university.

Each university retains its full right to accept or reject any student who wishes to study under its auspices. A traveling scholar will normally be limited to one term on the campus of the host institution. A traveling scholar accepted by the host institution will be regarded as being registered at that institution for the period.

A traveling scholar is not entitled to displacement allowance, mileage, or per diem payments. The home university, however, may at its option continue its financial support of the traveling scholar in the form of a fellowship or graduate assistantship with any work obligation to be discharged either at the home or at the host institution.

STUDENT RECORDS

Change of Student Information

Change of local, permanent, and emergency contact addresses; name; or other information affecting the student's permanent academic record may be completed by currently enrolled students through ARGUS at argus.uwf.edu. Forms are also available through the Office of the Registrar.

Student Photos

Student photos are provided to faculty on electronic class rosters to assist in identifying students, personalizing the class experience, verification of attendance, and other class related issues. Photos are used strictly for educational reasons, are confidential and may not be published or released in any other context.

Death of a Student

In accordance with the Family Educational Rights and Privacy Act, the University of West Florida's policy regarding the disposition of records held pertaining to a deceased student state that the privacy interests of an individual expire with that individual's death.

Annual Notification of Student Records and Directory Information

The disclosure or publication of student information is governed by the policies of the University of West Florida and the Board of Education within the framework of State and Federal laws, including the Family Educational Rights and Privacy Act of 1974. The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include the following:

- The right to inspect and review the student's education records within 45 days of the day the University receives a request for access.
- A student should submit to the registrar, or other appropriate official, a written request that identifies the record(s) the student wishes to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.
- The right to request the amendment of the student's education records that the student believes are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA.
- A student who wishes to ask the University to amend a record should write the University Official responsible for the record, clearly identifying the part of the record the student wants changed, and specify why it should be changed.
- If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student's right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

- The right to provide written consent before the University discloses personally identifiable information from the student's education records, except to the extent that FERPA authorizes disclosure without consent.

- The University discloses education records without a student's prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel, health staff, and student workers); a person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

- The University official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University. Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is the following:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

The university may release records without consent, under the following exceptions:

- "School officials" with a "legitimate educational interest"/"need to know;" Employees and legal agents have access to education records in order to perform their official, educationally-related duties.
- Disclosure to another institution where student seeks to enroll or is enrolled;
- Disclosure to Department of Education, state/local education authorities;
- Disclosure in connection with the receipt of financial aid (validating eligibility)
- Disclosure to state/local officials in conjunction with legislative requirements;
- Disclosure to organizations conducting studies to improve instruction, or to accrediting organizations;
- Disclosure to parents of dependent students (IRS definition);
- To comply with a judicial order or lawfully issued subpoena;
- Disclosure for a health/safety emergency; and
- Disclosure of directory information.
- Disciplinary information (Warner Amendment):
- Disclosure to the alleged victim, information from disciplinary proceedings;
- Only when found in violation, and only for crimes of violence—release of name, sanction and outcome (public information); and
- Disclosure to parents of any student under the age of 21, a violation of federal, state, local or institutional laws/regulations related to substance abuse (Foley Amendment).
- Veterans Administration officials in response to requests related to VA programs
- Representatives of Homeland Security for purposes of the coordinating interagency partnership regulating international students (CIPRIS)

Directory Information

Directory information will be released for public records requests, the Campus Directory, and for other requests, unless otherwise specified by the student. The online campus directory is available only internally through ARGUS. Students entering UWF will automatically have their address and phone number withheld from electronic publication unless the student indicates otherwise through ARGUS.

Under the provisions of the Family Education Rights and Privacy Act, students have the right to withhold disclosure of directory information. The information listed below has been designated by the University as directory information and will

be released or published by the University unless the student has submitted a request for "non-release" to the University in writing or via ARGUS. Students have the option for suppression of directory information from various events (i.e. commencement, etc.).

Category I
Name, address, telephone number, dates of attendance, email address

Category II
Most recent previous institution attended, major field of study, awards, honors (includes Deans' list), degrees conferred (including dates)

Category III
Past and present participation in officially recognized sports and activities, physical factors (height, weight of athletes), date and place of birth

Category IV
Commencement Program (name and degree at time of graduation)

Category V
News releases (at time of graduation)

Students may choose to restrict all or a portion of their directory information from the electronic directory by checking:

- No restrictions
- Suppress all information
- Suppress home address only
- Suppress home phone only
- Suppress home address and phone (default upon enrollment)

Students who wish to have the privacy flag removed from their permanent academic record must contact the Office of the Registrar in writing or may submit the change online through ARGUS. NOTE that electronic release of information is separate from other printed and verbal release.

STUDENT RIGHT-TO-KNOW INFORMATION

In compliance with the Student-Right-To-Know legislation, data is available in the Office of Student Affairs, (850) 474-2384.

DIRECTORY/ STUDENTS, STAFF, AND FACULTY

The University publishes an annual Campus Directory which includes a campus locator and the names, addresses, telephone numbers, and departmental affiliation for faculty, staff, and students. Copies are provided for distribution to the student body, faculty, and staff. Additional copies may be obtained at the Information Center, UWF Bookstore, Ticket Office, Cashier's Office, the Office of the Registrar, and Nautilus Card Office.

The electronic directory is available through ARGUS for University students, faculty, and staff. New students will automatically have address and phone suppressed from the electronic directory. Students may change their privacy restrictions via the ARGUS Services tab in the Directory and Privacy Information Update section.

Students who are also listed as employees of the University will have work related directory information included in the employee directory. Students may inform the University in writing if they choose to prevent publication of directory information in electronic or hard copy formats. Privacy forms should be completed and submitted to the Office of the Registrar by the end of the fall semester's drop/add period for information to be withheld from the published Directory (see Confidentiality of Student Records). Changes for Electronic Release will take up to 24 hours to be reflected in the online directory since the changes are implemented over night.

RESIDENCY FOR TUITION PURPOSES

To qualify as a resident for tuition purposes, the student must be a U.S. Citizen, permanent resident alien, or a legal alien granted indefinite stay by U.S. Bureau of Citizenship and Immigration Services, and must have established physical and legal residence in Florida for at least one year. Students who do not meet these basic criteria cannot be classified as residents for tuition purposes. Questions regarding residency status upon application and readmission to UWF should be directed to the Graduate School. Questions regarding a change in residency status for currently enrolled students should be directed to the Office of the Registrar.

CHANGE OF RESIDENCY STATUS

Change of Residency or reclassification procedures apply to any student who attended UWF within the last three semesters and is requesting a change to his or her residency status. A student who has been enrolled, while classified as a "non-Florida resident for tuition purposes" and wishes to be considered for reclassification as a "Florida resident for tuition purposes," should file with the Office of the Registrar a "Request for Change of Residency" form, with copies of full documentation attached. The request and documentation must be submitted one week prior to the first day of classes for any given semester.

This request for reclassification is also required for students who are active duty or discharged members of the Armed Forces who wish to change from non-Florida or temporary Florida resident to Florida resident status.

Living in or attending school in Florida will not, in itself, establish legal residence. An individual must be able to demonstrate that his/her activities in Florida during the qualifying period are not primarily student related. Residency in Florida must be for the purpose of establishing a permanent home and not merely incidental to enrollment at an institution of higher education. University residence halls, fraternities, sororities, scholarship houses, and other UWF campus addresses are not permanent addresses for residency purposes. The burden of proof of permanent residence lies with the student.

DETERMINATION OF DEPENDENT OR INDEPENDENT STATUS

Students enrolled in a graduate program (master's, specialist, or doctoral) are considered independent for residency purposes. Graduate students wishing to claim dependent status should contact the Graduate School (new graduate students) or the Office of the Registrar (change in residency status) for required information to prove dependent status.

RESIDENCY DOCUMENTATION

In addition to being a U.S. citizen, permanent resident alien, or legal alien granted indefinite stay by INS, a student must provide the following documentation one week prior to the first day of classes for any given semester:

- Documentation of being the spouse of someone who has resided in the state of Florida for the previous 12 months with the intent of establishing a permanent home (requires the marriage certificate, the residency statement and supporting documentation of the spouse, plus a photo copy of the student's Florida driver's license, voter registration, or vehicle registration); AND
- Documentation establishing legal residence in Florida (must be dated at least one year prior to the first day of classes of the semester for which resident status is sought)
- Proof of purchase of a permanent home in Florida in which the student has resided for at least one year prior to the first day of classes, OR
- Proof that the student has maintained residence in Florida for the preceding year (e.g., rent receipts, canceled checks or notarized statement from a landlord); AND

- Documentation establishing bona fide domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education must be dated at least one year prior to the first day of classes of the semester for which resident status is sought. The following documents will be considered evidence of domicile even though no single criteria will be considered as conclusive evidence of domicile:

    - Florida voter registration
    - Florida driver's license
    - Florida vehicle registration
    - Proof of real property ownership in Florida (e.g., deed, tax receipts)
    - Florida occupational license
    - Declaration of Domicile
    - Letter on company letterhead from an employer verifying permanent employment in Florida for the 12 consecutive months before classes begin
    - Proof of membership in or affiliation with community or State organizations or significant connections to the State
    - Proof of reliance upon Florida sources of support
    - Any other factors peculiar to the individual which tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual
    - No contrary evidence establishing or maintaining residence elsewhere.

SPECIAL CATEGORIES FOR TEMPORARY FLORIDA RESIDENCY

- Members of the U.S. Armed Forces on active duty stationed in Florida and their spouse and dependents
- Full-time instructional or administrative employees of Florida public schools, community colleges, or institutions of higher education and their spouse and dependents
- Part of the Latin American/Caribbean Scholarship Program
- Living on the Isthmus of Panama and have completed 12 consecutive months of college work at the FSU Panama Canal Branch, or is the students spouse or dependent child
- Participant of Southern Regional Educations Board's Academic Common Market graduate student
- Full-time employee of a state agency or political subdivision of the state whose student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training
- McKnight Fellowship recipient
- Active member of the Florida National Guard who qualifies under Florida statue for the tuition assistance program
- Active duty member (or the spouse of the member) of the Armed Services of the United States attending a public community college or university within 50 miles of the military establishment where the member is stationed, if such a military establishment is within a county contiguous to Florida
- Active duty member (or spouse or dependent child of a member) of the Canadian military residing or stationed in Florida under the North American Air Defense (NORAD) Agreement, attending a public community college or university within 50 miles of the military establishment where the active duty member is stationed
- U.S. Citizen living outside the U.S. who is teaching at a Department of Defense Dependent School or in an American International School and who has enrolled in a graduate level education program which leads to a Florida teaching certificate
- Active duty member (or spouse or dependent child of the member) of a foreign nation's military who is serving as a liaison officer or is residing or stationed in Florida and attending a community college or state university within 50 miles of the military establishment where stationed

ACADEMIC POLICIES

GRADING SYSTEM

Grades will be reported in the following manner:

Grade	Description	Grade Points
A	Outstanding	4.0
A-	Outstanding	3.7
B+	Above average	3.3
B	Above average	3.0
B-	Above average	2.7
C+	Average	2.3
C	Average	2.0
C-	Average	1.7
D+	Below average	1.3
D	Below average	1.0
F	Failure	0.0
U	Unsatisfactory	0.0
WR	Withdrawal with partial refund of fees	* *
TR	Withdrawal with full refund	* *
W	Withdrawn	* *
WF	Withdrawn/failing	0.0
X	Audit	* *
I	Incomplete	* *
I*	Grade Not Reported	* *
G	Deferred (Thesis/Dissertation only)	* *
S	Satisfactory	* *
*	Withdrawn (W or WF) not yet reported	* *

* * Grade not included when computing the GPA.

Student teaching, practica, and special courses are graded on a satisfactory/unsatisfactory “S/U” basis.

In computation of the required grade point average (GPA) for retention and conferral of a degree, the total number of quality points (grade points times course semester hours) is divided by the total number of semester hours for which letter grades are received (see the Grading System for grade points). All regulations tied to a specific grade average should be interpreted to mean the numerical average associated with that specific grade. Hence, the required “C average or better” is interpreted as “2.0 average or better.”

Course work completed in any student classification (including non-degree) will be included in the graduate GPA, determined by the level of the course.

CHANGE OF GRADES

Students graduating from UWF having earned a letter grade of “F, D, D+, C-, C, C+, B-, B, B+, A-, or A” may not have a grade changed for a course which was taken and completed prior to graduation.

REPEATED COURSES

A student may receive credit for a course only once regardless of how many times it is taken in transfer or at UWF. All attempts at UWF count in the GPA.

GRADES OF INCOMPLETE

An incomplete ("I") grade signifies that all course requirements have not been met. If circumstances exist beyond the control of the student, as determined by the instructor, the following applies:

- The instructor may assign a grade of "I," provided the student has satisfactorily completed at least 70 percent of the course requirements and the student has a grade of at least C– or S (satisfactory) in coursework up to that point in time. Students who receive an involuntary call to active military duty should consult with their instructors.
- The "I" becomes an "F" at the end of the next academic semester unless the grade is changed by the instructor to a letter grade "A"-"F". The student is responsible for submitting a written request to the department for a grade change or extension prior to the end of the last instructional day of the semester. Extensions may only be approved for extenuating circumstances and only for a maximum of 12 months.
- Students receiving grades of incomplete should NOT reregister for courses in which an "I" has been assigned.
- When assigning an incomplete grade "I", instructors should complete a "Report on Assignment of Incomplete Grade." This will assist students in understanding the requirements for completing a course, and it will provide necessary information in the event the instructor is not available to monitor the completion of the requirements.
- An "I" grade will be converted to a "F" grade upon graduation if no other grade is submitted. Students may not graduate with an outstanding "I" grade.
- Graduated students having an "I," which was converted to an automatic "F" or other incomplete grade for a course may have the grade changed to a letter grade within one year after receiving a degree. To change the grade, the student must complete the required work and the course instructor must submit the appropriate grade change form via the chairperson and the dean. The student's transcript will be annotated to show that the course requirements were completed after graduation.

GRADE APPEAL

Students should consult the *Student Planner and Handbook* at website thezonelive.com/zone /public/6/schoolHome.asp?i=12706 for information regarding the grade appeal process. Grade appeals for courses cross-listed with another department within another college will be heard through the college housing the department, regardless of the departmental affiliation of the faculty member teaching the course.

ACADEMIC STANDING

MASTER'S AND SPECIALISTS

Good Academic Standing
Students are considered to be in good academic standing if they are currently enrolled and eligible to re-enroll at UWF.

Academic Probation
Graduate students may be placed on probation by the academic department at the completion of the semester during which the cumulative GPA falls below 3.0. A grade of "S" (satisfactory) is not considered in the evaluation of academic standing. Students will be notified of their academic status by their department.

Graduate students on probation are required to attain a cumulative GPA of 3.0 upon attempting or completing a total of up to 10 additional semester hours of graduate work, following the date which the student was placed on academic probation. Students not achieving this requirement may be suspended from the program. The academic department has the prerogative to continue a student on probation as determined by the student's individual circumstances.

With the approval of the prospective department chairperson and college dean, a student on probation in a graduate program may apply for admission to another graduate program provided requirements for admission to that program are met. Applications must be processed through the Graduate School.

Academic Suspension
Graduate students not achieving a cumulative 3.0 GPA within the period designated may be suspended from the program. Written notification will be mailed by the department to the student. With the approval of the prospective department chairperson and college dean, a student suspended from a graduate program may apply for admission to another graduate program provided requirements for admission to that program are met. Applications must be processed through the Graduate School.

Reinstatement
Students suspended from a graduate program may petition for reinstatement after the lapse of one academic semester during which the students are not enrolled at UWF. Written evidence of eligibility must be submitted to the college dean. Graduate students on suspension may submit a written appeal to the college dean who may refer the matter to the college Academic Standards Committee. Students not attending UWF the previous three semesters must file an application for readmission with the Graduate School.

DOCTORATE

Good Academic Standing
Students are considered to be in good academic standing if they are currently enrolled and eligible to re-enroll at UWF.

Academic Probation
A student's degree program GPA must be at least 3.25 (on a 4.0 scale) for all courses taken at UWF. No grades of "C+" in the major courses and no grade of "D" may be counted toward the Doctor of Education degree. A grade of "S" (satisfactory) is not considered in the evaluation of academic standing. Students who do not maintain a 3.25 GPA are placed on academic probation. Specialization areas may have additional requirements regarding acceptable letter grades for major courses that are counted toward the Ed.D. degree. Graduate students on probation are required to attain a cumulative GPA of 3.25 upon attempting or completing a total of up to 10 additional semester hours of graduate work, following the date which the student was placed on academic probation. Students not achieving this requirement may be suspended from the program. The academic department has the prerogative to continue a student on probation as determined by the student's individual circumstances.

Academic Suspension
Students who do not achieve a cumulative GPA of 3.25 within the period designated may be suspended from the program. Students should consult the Ed.D. Program Office for requirements for the Preliminary Examination and continued enrollment in the program.

Reinstatement
Students suspended from a graduate program may petition for reinstatement after one academic semester during which the students are not registered at UWF. Written evidence of eligibility must be submitted to the college dean. Students on suspension may submit a written appeal to the college dean who may refer the matter to the College Academic Standards Committee. Students who are suspended must submit an appeal within the 12 month or three semester period following notification of suspension. Students who do not submit an appeal within the 12 month period must reapply to the program through the Graduate School. Readmitted students are responsible for the degree requirements in effect at the time of reapplication.

NON-DEGREE STUDENTS
Non-degree students are subject to the same academic standards and review procedures as students admitted to graduate degree programs (see probation/suspension, based on the level of the courses).

CHANGE OF PROGRAM
Graduate students desiring new programs must complete new applications for graduate admissions. Contact the Graduate School for further information.

Doctoral Program
Faculty in individual specialization areas review, approve, or deny admission of students who apply to a selected area. A student is admitted into the Ed.D. program when a specialization area admits a student into the specialization. Students admitted and enrolled in course work in the Ed.D. program, choosing to change their specialization area, must reapply for admission to the Ed.D. program through the Graduate School. Students must complete requirements in effect at the time of admission.

Certificate Programs
The University of West Florida offers certificates in several areas. These programs are listed under Degrees and Areas of Specialization in the *Catalog*. Requirements for Certificate Programs are determined by the academic department offering the certificate. Upon approval and notification from the academic department, awarding of a certificate is listed on the student transcript. Actual certificates may be provided by the academic department. Contact the academic department offering the certificate for more information.

READMISSION
Students who do not maintain continuous enrollment and who are readmitted to the University after non-enrollment of three consecutive semesters have the option of following the degree program outlined in the *Catalog* in effect at the time of re-enrollment as degree-seeking students or the *Catalog* in effect at the time of graduation. Doctoral students must consult the Ed.D. Program Office for readmission information.

CLASS ATTENDANCE
The University expects students to take full responsibility for their academic work and academic progress. To progress satisfactorily, students must meet the requirements of each course for which they are registered. Successful work depends to a large extent on regular class attendance.

Class attendance is regarded as an academic matter. Each faculty member will provide a written attendance policy to each class within the first week of classes. The use of attendance records in grading and handling of any excuses for absences is left to the discretion of the faculty member responsible for the course, subject to the guidelines given below:

- Students will be excused from class to observe religious holidays of their faith. No major test, major class event, or major University activity will be scheduled on a major religious holiday.
- Absences for imposed legal responsibilities (e.g., jury duty, court appearance) will be recognized as excused absences.
- Absences resulting from participation in extracurricular activities in which students are official representatives of the University will be recognized as excused absences.
- Absences for serious illness, death or serious illness within the student's immediate family, military obligations, or other sound reasons offered by the student may be accepted as excused absences.

It is the responsibility of students to know the attendance policy of each course they are taking. Students must inform their instructor(s) of absences from classes prior to or as soon as possible after the absence. Instructors have the right to request verification for all excused absences. Students are held accountable for all assignments in each course, whether or not the assignments were announced during an absence. Faculty are encouraged to provide opportunities for students to make up examinations and other work missed because of an excused absence.

RESERVE/NATIONAL GUARD DUTY

To fulfill a reservist or National Guard military obligation of no more than two weeks concurrent with a normal academic semester at UWF, students must receive written permission for such absences from the instructors and departmental chairpersons for each course in which they are enrolled. The approval is not automatic but is discretionary with the instructors and departmental chairpersons.

TIME TO DEGREE

MASTER'S

All coursework (including transferred credit) must be completed within six years from the date the UWF degree is awarded. The department may recommend that UWF and transferred courses which are older than six years be included in the student's program of study if the department validates that the student has current knowledge related to the course subject matter.

SPECIALIST

Refer to the Specialist Degree Requirements in the Graduation and General Degree Requirements section of the catalog.

DOCTORAL PROGRAM

Refer to the Doctor of Education Degree Requirements in the Graduation and General Degree Requirements section of the catalog.

TRANSFER OF CREDIT

MASTER'S AND SPECIALIST

Graduate transfer credits must be approved by the student's academic department. Graduate credits may be transferred from other regionally accredited institutions only when a grade of "B" or higher was earned in the graduate work to be transferred.

Students whose programs consist of 30 to 36 semester hours may have a maximum of six semester hours or two courses (whichever is greater in credit) of graduate work at other universities accepted toward their program requirements at UWF. The department chairperson's permission is required.

Students whose programs consist of more than 36 semester hours may have a maximum of 10 semester hours of graduate work from other universities accepted toward their program requirements at UWF.

DOCTORAL PROGRAM

Students who have completed an Educational Specialist degree within the previous five years at UWF can transfer a maximum of 21 semester hours of graduate credit earned beyond a master's degree into the Ed.D. program. Students requesting to transfer course work from other institutions are advised on an individual basis. Graduate transfer credit must have been earned within five years of the date of admission and be approved by a student's academic department. Students are eligible to transfer a maximum of 10 semester hours of graduate work from other universities.

All hours transferred into the Ed.D. program must align with the professional core and specialization course requirements. Students admitted into the Ed.D. program must enroll in at least 39 semester hours in the Ed.D. program at UWF (21 hours coursework and 18 hours dissertation). Exceptions on transfer work and the 39 hour rule will be determined by the Ed.D. Program Committee.

Students choosing to petition for a larger number of hours to be credited to the Ed.D. program must submit an "Ed.D. Student Petition" form to the Ed.D. Program Office.

NONTRADITIONAL CREDIT

Credit by Proficiency Examination

At the request of a department and with the approval of the college dean, a student may be permitted to take six semester hours or two courses (whichever is greater in credit) of graduate-level credit by examination. No fees will be assessed. Students should contact the chairperson of the appropriate department to make arrangements for an examination to be given. The grade for the proficiency exam will be submitted to the Office of the Registrar. Grades will be recorded and UWF's grading system and policies will be applied.

A student who previously attempted a course or is currently enrolled in a course may not use the credit by proficiency examination option for that course. Students may attempt to earn credit by examination in a specific course only once, regardless of whether the examination is passed or failed.

Non-degree students who possess a bachelor's degree or higher, who are participating in an approved teacher education program, and who demonstrate significant teaching experience, may take one or two courses amounting to no more than nine semester hours of their course work through the credit-by-examination option. Students must be enrolled in UWF at the time the exam is given.

UWF ACADEMIC MISCONDUCT CODE

This policy is available on the UWF web sites at: uwf.edu/president/policies/ or uwf.edu/osrr/.
Students should contact the Dean of Students Office, Building 21, (850) 474-2383 for more information.

Forms of Academic Misconduct

Violations by a student of any of the following actions that constitutes an offense will result in disciplinary action. Fraudulent or deceptive action involving academic matters, including the following:

- Cheating: The unauthorized giving or taking of any information or material on academic work considered in the determination of a grade.
- Plagiarism: The act of representing the ideas, words, creations or work of another as one's own.
- Bribery: The offering, giving, receiving or soliciting of anything of value to influence a grade.
- Conspiracy: Planning with others to commit any form of academic misconduct.
- Misrepresentation: Any action or omission with intent to deceive a teacher so as to affect a grade.

GRIEVANCES

The Student Grievance System is available on the University of West Florida web site at http://uwf.edu/osrr/.
Students should contact the Dean of Students Office, Building 21, (850) 474-2383 for more information.
Students who wish to make a grievance, including grade appeals, should review the Student Grievance System in the Rights & Regulations section of the *Student Planner and Handbook*. The process of handling student non-academic grievances is also detailed in the current issue of the *Student Planner and Handbook*.

APPEALS AND REQUESTS FOR WAIVERS OR EXCEPTIONS

An appeal may be filed by a student to request an exception or waiver to a University academic requirement, policy, procedure, or deadline. There are several different levels and types of appeals. All academic appeals should be submitted within six months of the close of academic semester of the appeal.

ACADEMIC APPEALS

The student must make a reasonable effort to contact the instructor, the department head and the academic dean in an effort to resolve differences before filing an appeal. Listed below are the various types of academic appeals.

Department Level-(Academic Department)

Department level academic appeals include requirements for program admission, substitutions or waivers for department requirements, course pre-requisites, and other department level decisions. Students should contact their academic advisor and department chairperson for information on the appeal process. The final appeal is determined by the College Dean.

College Level-(Academic College)

College level academic appeals include decisions on probation and suspension actions, waivers or substitutions of college core courses, etc. Students should contact their academic advisor and the college dean for information on this process and required documents.

University Level-(Graduate Dean/ University Registrar)

Most academic appeals fall under this category as this applies to those policies that are at the University level, or apply to all students regardless of program of study. Examples of University academic appeals include (but are not limited to):

- Late or retroactive withdrawals
- GPA requirement

The Academic Appeals Committee hears appeals from students who believe they have an exceptional circumstance or situation that warrants an exception or waiver. The Committee serves on behalf of the Provost to provide a University wide forum and decision making body for academic appeals. The Academic Appeals Committee normally meets biweekly. Appeals must be in writing on the appropriate forms and signed by the academic advisor, department chairperson, college dean, and graduate dean. Forms can be found on the Registrar website, uwf.edu/registrar. Appeals should include any and all appropriate documentation to support the appeal. Students will be notified by email of the outcome of the appeal.

If a student believes the decision of the Academic Appeals Committee is unjust, he/she may appeal in writing to the Vice President for Academic Affairs (submitted to the Office of the Registrar) within twenty calendar days after receipt of the decision of the Academic Appeals Committee.

Additional details regarding the appeals process is located at uwf.edu/registrar.

Other types of appeals may be addressed by various committees or areas as listed on the following page.

Other Appeals

Nature of Appeal	Committee/ Person	Format	Time Limit/ Deadline	Submit Appeal To:
Graduate Admission	Director, Graduate School	In writing	End of Drop/Add Period	Graduate School (Bldg. 11)
Discrimination due to Race, Gender, Disability	Director, Human Resources	In writing	180 days of incident (see Non-Discrimination Policy, *Student Planner and Handbook*)	Directory, Human Resources (Bldg. 20)
Fees, Assessment or Refund of Tuition	University Fee Appeals Committee	In writing; by letter or form available in Financial Services/Cashiers' Office	Within six months of close of academic term of appeal	Cashier (Bldg. 20)
Financial Aid	Financial Aid Satisfactory Progress Appeals Committee	In writing	None	Financial Aid (Bldg. 18)
Housing Fines	Director, Housing	In writing or by appointment	None	Director, Housing (Bldg. 21)
Immunization Requirements	Associate Vice President for Student Affairs	In writing or by appointment	Prior to registration for classes (Bldg. 21)	Dean of Students
Library Fines Department	Head, Circulation Department, then to Associate Director, Library	By phone, in person, or in writing	None	Head, Circulation (UWF Library)
Residency for Tuition Purposes	Residency Appeals Committee	In writing or by appointment	Last day of registration for requested semester	Registrar's Office (Bldg. 18)
Student Conduct	Student Conduct	In writing (see Code of Student Conduct, *Student Planner and Handbook*)	Within 5 days of Notification of Sanction	Vice President for Student Affairs (Bldg. 10)

GRADUATION & GENERAL DEGREE REQUIREMENTS

APPLICATION FOR GRADUATION

Students fulfilling requirements for a UWF master's or specialist degree must submit an "Application for Graduation" to their major departments by the application deadline stated in the Academic Calendar. Doctoral students apply for graduation the semester prior to the dissertation defense and must apply through the graduate department in the Ed.D. Program Office. Application forms for graduation are available within the academic departments. Retroactive graduation to a prior semester will not be approved.

SUBSTITUTION OF GRADUATION REQUIREMENTS FOR STUDENTS WITH DISABILITIES

Students with documented visual impairments, hearing impairments, motor impairments, or specific learning disabilities may petition for substitution of degree requirements provided such substitutions do not significantly alter the nature of the program in which the student is enrolled. For more information about the University's degree requirement substitution policy, contact the college dean of the program.

COMMENCEMENT

Commencement ceremonies at UWF are held twice a year, fall and spring for students graduating with a Baccalaureate, Master's, Specialist, or Doctorate degree. Doctoral students must be approved by the Graduate School prior to participating in the commencement ceremony.

Those master's students who plan to graduate in the summer should apply for summer graduation only. Prospective summer graduates have the option to participate in either the preceding spring or following fall ceremony. Doctoral students intending to graduate in the summer may not participate in the spring ceremony unless the dissertation has been fully approved and participation is approved by the Dean of the Graduate School. "Applications for Graduation" should be turned in to the major department by the date stated in the Academic Calendar in this *Catalog*. Students will receive information about graduation through their student email accounts. If information is not received, students should contact the Commencement Marshal or the Office of the Registrar. Commencement information is also available on the web at uwf.edu/commencement. UWF does not have a graduation honors program for master's, specialist, and doctoral students.

MASTER'S DEGREE REQUIREMENTS

Requirements for a master's degree from UWF are listed below. The colleges and departments may have requirements which exceed these minimums. Please consult the individual departments and the individual program descriptions in this *Catalog* for details. Minimum requirements are the following:

- Students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded;
- Completion of minimum 30 semester hours in an approved program;
- Completion of minimum 15 semester hours of coursework at the 6000 level or above;
- Approved graduate admission test scores submitted to UWF;
- Program GPA of a minimum of 3.0;
- Master's students must enroll as a degree-seeking student for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current catalog.

Requirements for Second UWF Master's Degree

Requirements listed below are applicable for students who already hold a master's degree from UWF or who are pursuing two masters' degrees simultaneously. Students who have earned a master's degree from another institution must meet the requirements listed under Master's Degree Requirements.

- Graduate students may be candidates for two master's degrees at UWF. Candidacy in two separate master's programs may be held in overlapping time periods. Candidates must meet the conditions of graduate status stipulated by both departments.
- Since a master's degree represents a level of attainment, some (or all) courses included in one graduate program may be used by another department to satisfy the formal requirements for a second graduate degree. A minimum of 18 semester hours must be taken for the second graduate degree which were not a part of the first degree.
- Master's students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded.
- Master's students must enroll as degree-seeking for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current catalog.

A second master's degree may not be earned in the same program area.

ACADEMIC POLICIES RELATED TO MASTER'S DEGREES

Academic Credit

Academic credit toward the degree shall not be given for courses which are designed to fulfill prerequisites for admission.

Advancement to Candidacy

Advancement to candidacy may be required by some departments. This is a separate step from admission to graduate studies. Students are responsible for determining the requirements in each area of study by consulting with the department chairperson.

Comprehensive or General Examination

Most departments require a written and/or oral general examination. The examination may be an initial diagnostic or a final comprehensive examination over the student's fields of study. Students must pass any examination required by the department to be recommended for a graduate degree.

Credit by Proficiency Examination

At the request of a department and with the approval of the college dean, a student may be permitted to take six semester hours or two courses (whichever is greater in credit) of graduate-level credit by examination. For more information, refer to the non-traditional credit section.

Directed Studies

A master's program may include up to two courses with a maximum total of six semester hours of directed studies. Directed studies must be at the 5000-6000 level.

GPA Requirements

A student must satisfy the UWF GPA requirement of 3.0 based upon grades for all courses included in the initial and approved degree plan and grades for all courses included in subsequent revisions. No grade for a course taken as part of an approved graduate degree program may be deleted from the GPA. Individual programs may set more stringent GPA requirements. Students must be cleared from academic probation in order to be eligible to graduate.

The UWF academic transcript, the student academic record, and grade report do not reflect the degree program GPA. These records indicate a GPA of all UWF graduate level courses with the exception of those included in a UWF baccalaureate degree.

Non-Degree Student Status

Graduate students who wish to change to non-degree status will complete the non-degree student application in the Graduate School and submit an additional statement in writing that a degree from UWF will no longer be pursued.

Residency Requirement

Students must complete a minimum of 24 semester hours of credit at UWF. The department offering the program may require additional residency.

Thesis Requirement

Theses are to be prepared in accordance with the specifications given in the "Thesis and Dissertation Guide" prepared by and available in the Graduate School. All theses must be produced in hard copy as well as in electronic format. Deadlines for submission to the Graduate School are posted online at uwf.edu/graduate.

Students should consult the current Graduate Catalog for the special requirements of the individual program to determine whether a thesis or alternative is required. A maximum of 6 semester hours of credit may be applied toward a master's degree for successful completion of a thesis. Upon completion of 6 semester hours of thesis credit, graduate students who continue thesis work must register for at least one semester hour of credit each semester (including summer) thereafter until the thesis is approved by the Graduate School and submitted to the library. Failure to register for thesis hours for 3 consecutive semesters will result in the student having to reapply to the program, subject to the policies and procedures in effect at that time. Students who do not maintain continuous enrollment will be charged for 1 semester hour of thesis credit per semester for each semester during the time they were not continuously registered. A thesis grade of "G" (deferred) will be given until the final thesis has been approved by the Graduate School.

Time to Degree – Masters

All coursework (including transferred credit) must be completed within six years from the date the UWF degree is awarded. The department may recommend that UWF and transferred courses which are older than six years be included in the student's program of study if the department validates that the student has current knowledge related to the course subject matter.

Tool of Research Requirement

Although the University has no general research tool requirement, some departments expect demonstrated competence in a research tool, such as statistics or a foreign language. Students should refer to the appropriate department to ascertain whether a research tool is required.

Transfer Credit

Students whose program consist of 30 to 36 semester hours may have a maximum of six semester hours or two courses (whichever is greater in credit) of graduate work at another university accepted toward their program requirements at UWF. The department chairperson's permission is required. Students whose program consists of more than 36 semester hours may have a maximum of 10 semester hours of graduate work from another university accepted toward their program requirements of UWF. Graduate credit may be transferred from other institutions when a grade of "B" or higher was earned.

Use of Undergraduate Credit in a Master's Program

A master's program may include a maximum of six semester hours or two courses (whichever is greater in credit) of UWF undergraduate level course work. Requests for use of an undergraduate course in a graduate program must be submitted by the end of the drop/add period of the semester of enrollment. If the course is offered at the graduate level (5000-6999) students may not register for the undergraduate section. Courses must meet the following criteria:

- Undergraduate courses must be at the 3000-4000 level and be annotated for graduate credit (i.e., included in a graduate program and requiring additional work to receive graduate credit).
- Undergraduate courses must be completed at the University of West Florida.

SPECIALIST DEGREE REQUIREMENTS

To be eligible for an Ed.S. degree, students must meet the following requirements:

- Be admitted to the program
- Submit an approved degree plan which includes at least 36 semester hours
- At least nine semester hours of all course work in the Curriculum and Instruction Specialist program must be of 7000 level. The remainder will be at the 5000-6000 level except when specific waivers have been obtained
- No more than 10 semester hours may be transferred from another institution that were earned within five years of the date of admission to the specialist program
- Have a minimum GPA of 3.0 in Specialist program
- Complete degree requirements within seven years from the date of admission
- Be recommended for graduation by the departmental chairperson
- Specialist degree students must be admitted and enroll as a specialist student at UWF for a minimum of one semester prior to the degree being awarded
- Specialist students must enroll for a minimum of one semester at UWF within the last five years of the date the degree is awarded. Students should contact their program of study advisor to determine the minimum hours and courses in which to enroll. Students who need to be readmitted will be required to meet the degree requirements of the current catalog.

Requirements for Second UWF Specialist Degree

Requirements listed below are applicable for students who already hold a specialist degree from UWF or who are pursuing two specialist degrees simultaneously. Students who have earned a specialist degree from another institution must meet the requirements listed under Specialist Degree Requirements.

- Graduate students may be candidates for two specialist degrees at UWF.
- Candidacy in two separate specialist programs may be held in overlapping time periods.
- Candidates must meet the conditions of graduate status stipulated by both departments.
- The professional core, made up of 15 semester hours, included in one specialist program may be used to satisfy the professional core requirements for a second specialist degree. The minimum course requirements of the desired specialization must be completed for the second specialist degree, which were not a part of the first degree.
- Specialist students must be admitted and enroll at UWF for a minimum of one semester as degree-seeking in the degree program for which a degree is awarded.
- Specialist students must enroll as a degree-seeking student for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students who need to be readmitted will be required to meet the degree requirements of the current *Catalog*.

A second specialist degree may not be earned in the same program area.

DOCTOR OF EDUCATION DEGREE REQUIREMENTS

For detailed information, refer to the Policies and Procedures available on the Ed.D. Program web page. To be eligible for an Ed.D. degree, a student must meet the following requirements:

- Be admitted to the program by the Ed.D. Program Committee and dean
- Complete an approved degree plan of a minimum of 62 semester hours. No more than 10 semester hours may be transferred from another institution that were earned within five years of the date of admission to the UWF Ed.D Program
- Complete the residency requirement: Students establish residency when they enroll in at least 24 semester hours in 2 consecutive academic years (includes summer sessions). The Ed.D. program director monitors and verifies student compliance with the provisions of this requirement
- Students must complete an orientation and an initial and advanced APA seminar
- Complete the Preliminary Examination during the specified time frame
- Complete all requirements to advance to candidacy
- Have maintained a minimum cumulative program GPA of 3.25 with no grades lower than a B- in course work counted toward the degree. Specialization areas may have additional requirements regarding acceptable letter grades for major courses that are counted in the degree program
- Successfully complete and orally defend a dissertation
- Be recommended for graduation by the doctoral committee, departmental chairperson, and the Ed.D. Program Office
- Complete degree requirements within seven years after the date of admission
- Students must enroll for a minimum of one semester at UWF within the last five years of the date the degree is to be awarded. Students should contact their program of study advisor to determine the minimum hours and courses in which to enroll. Students who need to be readmitted will be required to meet the degree requirements of the current catalog.

Dissertation Course Registration Requirements and Grading

Dissertations are to be prepared in accordance with the specifications given in the “Thesis and Dissertation Guide” prepared by and available in the Graduate School. All dissertations must be produced in hard copy as well as in electronic format. Deadlines for submission to the Graduate School are posted online at uwf.edu/graduate.

Doctoral candidates are required to register for a minimum of 18 semester hours of dissertation course work. Candidates must register for a minimum of 3, but not more than 6, semester hours each semester (including summer terms) until they have registered for a cumulative total of 18 semester hours of doctoral dissertation course work. Thereafter, candidates are required to register for a minimum of 2 semester hours of dissertation course work each consecutive semester (including summer) until the student has completed 24 semester hours of dissertation work. At that time the student will be reevaluated by the doctoral committee chair and committee to determine if the student can complete the dissertation. If the doctoral committee determines that the student can complete the dissertation, the student will be required to register for 3 semester hours of dissertation coursework each semester until the doctoral committee approves the dissertation. Once the doctoral committee has approved the dissertation, the candidate must continue to register for 1 credit hour per semester until the dissertation is approved by the Graduate School and submitted to the library.

Candidates shall maintain active candidacy status in accordance with the above stated criteria. Those who fail to maintain active status during the dissertation process will have their status reviewed by the director of the Ed.D. program. Failure to register for the appropriate dissertation coursework for 3 consecutive semesters will result in the candidate having to reapply to the program, subject to the policies and procedures in effect at that time. Students who do not maintain continuous registration after the dissertation has been approved by the dissertation committee will be charged for 1 semester hour of dissertation credit per semester for each semester during the time they were not continuously registered.

PUBLIC SERVICE AND RESEARCH CENTERS

The University of West Florida is committed to public service and research opportunities for faculty and graduate students. Research and Sponsored Programs facilitates the growth, development, and quality of basic and applied sponsored research and will transfer emerging technologies from that research to the public. A listing of the centers and institutes may be found through the Division of Academic Affairs website link to Centers/Institutes at research.uwf.edu/institutes.cfm. For additional information, contact the Office of Academic Affairs at (850) 474-2035.

COLLEGE MISSION STATEMENTS

College of Arts and Science

The College of Arts and Sciences challenges students to meet high standards of academic excellence, develop their creativity, and increase their civic engagement as they acquire a broad knowledge base. Faculty actively involve students with discipline – specific concepts, theories, frameworks, and methods as they engage in a full range of scholarly activities and professional service. From a curriculum that emphasizes values and ethics, students develop assessable skills in critical thinking, communication, and project management that provide essential tools for dealing effectively with life in a world of accelerating change and growing diversity.

College of Business

The mission of the College of Business is to provide a high quality, student-orientated, educational experience to baccalaureate and master's degree business students primarily from the Northwest Florida region. With a focused priority on teaching excellence, supported by scholarship and service the College of Business prepares students for successful careers in business and society and, in doing so, advances the educational and economical development of Northwest Florida.

College of Professional Studies

The College of Professional Studies prepares students for careers in criminal justice and legal studies; health, leisure and exercise science; teacher education; engineering and computer technology; and social work. The mission of the College is to education professionals who can apply 21st Century knowledge, skills, and abilities to address real-world situations and problems. To achieve this mission, faculty and staff in the College of Professional Studies support the development of community and regional educational partnerships that assist students in the realization of this mission.

MASTER'S DEGREES

The University of West Florida offers a variety of majors that lead to the following graduate degrees:

M.A.	Master of Arts
M.Acc.	Master of Accountancy
M.B.A.	Master of Business Administration
M.Ed.	Master of Education
M.P.H.	Master of Public Health
M.S.	Master of Science
M.S.A.	Master of Science in Administration
M.S.N.	Master of Science in Nursing
M.S.T.	Master of Science in Teaching
M.S.W.	Master of Social Work

A description of each major and the requirements for each specialization are provided on the following pages. Also included are the points of contact for each major.

ACCOUNTING

Degree: Master of Accountancy (M.Acc.)
Certificate: Professional Accountancy
Department: Accounting and Finance
76, Room 212
(850) 474-2717
http://uwf.edu/account
account@uwf.edu
College: Business

Faculty: http://uwf.edu/account/directory.cfm

The M.Acc develops the graduate students' conceptual understanding of current and merging technical issues facing the accounting profession, advanced technical skills in the area of elective concentration, and research and communication skills commensurate with the requirements of the accounting profession. The M.Acc. requires that 30 semester hours be completed, exclusive of Foundational Proficiencies. The core courses provide advanced work in the areas of financial and managerial accounting, contemporary professional issues, auditing, tax, and financial management. A strong emphasis on the development of analytic, communication, and presentation skills is evident in the courses. Course offerings allow for specializations in the areas of professional accountancy and taxation.

Graduates of this program are now successfully pursuing careers in public accounting as auditors, consultants, and tax practitioners; in industry as financial and operational managers; and in government in a variety of roles. The emphasis on written and verbal skills, when combined with the emphasis on analysis and advanced technical information, is intended to prepare graduates to pursue the professional opportunities of their choice.

Contact department for information about graduate assistantships, scholarships, and fellowships.

FOUNDATIONAL PROFICIENCIES

Admission to candidacy in the M.Acc. program is gained by demonstrating proficiency in the college's core curriculum and the following accounting courses:

ACG	3101	Intermediate Financial Accounting I	3
ACG	3111	Intermediate Financial Accounting II	3
ACG	3343	Cost Accounting (or ACG 3351)	3
ACG	3401	Accounting Information Systems	3
ACG	4151	Accounting Theory	3
ACG	4651	Auditing……	3
BUL	3130	Legal Environment of Business	3
FIN	3403	Managerial Finance	3
TAX	4002	Tax Accounting	3

These proficiencies may be demonstrated by satisfactory completion of equivalent courses or by special examination. Courses completed more than four years prior to admission must be reviewed and, in most instances, an examination to determine proficiency will be recommended.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Management Admissions Test (GMAT)
  - Graduate Record Examination (GRE)
- Undergraduate cumulative GPA
- Submission of letter of intent
- Submission of two academic/professional letters of recommendation

Application and Counseling

Inquiries should be addressed to the chairperson of the Department of Accounting and Finance. The chairperson or a representative will assist in all matters of application, admission, degree planning, and graduation. Copies of the transcripts describing prior academic work and results of the graduate admission test should be submitted at the time of application to the Graduate School.

PROFESSIONAL ACCOUNTANCY SPECIALIZATION

ACG	5658	Non-Profit Accounting and Auditing	3
ACG	6308	Advanced Managerial Accounting	3
ACG	6805	Seminar in Financial Accounting	3
BUL	5831	Commercial law	3
FIN	6406	Financial Management	3
TAX	5105	Corporate Income Tax	3
ACG	5205	Advanced Financial Accounting	3
ACG	6405	Accounting Information Systems	3
ACG	6856	Advanced Auditing	3
5000/6000 Advisor approved COB elective			3

TAXATION SPECIALIZATION

ACG	5658	Non-Profit Accounting and Auditing	3
ACG	6308	Advanced Managerial Accounting	3
ACG	6805	Seminar in Financial Accounting	3
BUL	5831	Commercial Law	3
FIN	6406	Financial Management	3
TAX	5105	Corporate Income Tax	3
TAX	6065	Tax Data Bases, Research, and Procedure	3
TAX	6405	Estate, Gift, and Trust Taxation	3
TAX	6875	Special Topics in Taxation	3
5000/6000 Electives….			3

ADMINISTRATION

Degree: Master of Science in Administration (M.S.A.)
College: COPS Dean's Office
Building 85, Room 109
(850) 474-3218
http://uwf.edu/msaprogram
msaprogram@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/cops/faculty/index.cfm

The Master of Science in Administration is an interdisciplinary degree designed to prepare students for leadership roles as managers and administrators in public, nonprofit, and private agencies. The business core prepares students to assume positions in general settings while the chosen specialization prepares them for management and administration in a specific field. There are specializations from which students may choose: Acquisition and Contract Administration, Biomedical/ Pharmaceutical, Database Administration, Health Care Administration, Human Performance Technology, Leadership, Nursing Administration, Public Administration, and Software Engineering Administration.

In addition to general University requirements, students seeking the M.S.A. must meet the requirements listed below. Course descriptions are listed alphabetically by prefix in the end of this catalog.

PROGRAM REQUIREMENTS

Applicants to the M.S.A. degree program must possess a baccalaureate degree from an accredited college or University. In addition to general University minimum standards of admissions to graduate study, some departments and specializations have additional requirements. International students must take an approved English proficiency test and submit passing scores according to University standards. No more than 49% of the program requirements for the M.S.A. degree may be taken in traditional business subjects. All specializations in the M.S.A. have a common core. Students must earn a "C" or above in all courses.

ACQUISITION AND CONTRACT ADMINISTRATION SPECIALIZATION

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Graduate GPA, if applicable
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Acquisition and Contract Administration Specialization (21 sh)

PAD	5635	Government Contract Law	3
PAD	5855	Acquisition Administration	3
PAD	5862	Government Cost and Pricing Analysis	3
PAD	6227	Public Budgeting	3
PAD	6275	Political Economy of Public Administration	3
6000 level advisor approved Advanced Contract Administration Elective			3

Choose one:

PAD	6946	Acquisition Administration Internship	3
6000 level advisor approved Public Administration (PAD) elective			3

BIOMEDICAL/PHARMACEUTICAL SPECIALIZATION

Completion of the Human Genome Project and advances in biomedicine, fueled by molecular biology and developments in software and the miniaturization and increased capabilities of computer hardware, have created explosive growth in employment opportunities in the biomedical and pharmaceutical industries at the administrative level. A solid lineup of business courses in the M.S.A. core provide students with a strong background in business that dovetails with the courses in the Biomedical/Pharmaceutical Specialization to prepare students for employment on the administrative side of the biomedical/pharmaceutical industries. Students in this specialization focus on IT applications in the biomedical/ pharmaceutical sciences; ethical issues in biomedical/ pharmaceutical sciences; the latest advances in biomedicine; and development, manufacturing, and testing of pharmaceuticals. A capstone course and a capstone experience provide students with hands-on experience in the industry of their choice and exposure to key elements in the targeted professional environments, including interpretation, organization, and publication of research data; scientific patents; research project development, presentation, and funding; and locating and securing positions in the industry of choice. Students completing this specialization will be qualified to interview for positions with a wide variety of companies

specializing in biotechnology, biomedicine, medical and scientific equipment, and pharmaceuticals.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 450 and Quantitative score of at least 550
  - Graduate Management Admissions Test (GMAT) Composite score of at least 465
  - Medical College Admission Test (MCAT) score of at least 25
- Submission of two personal writing samples (e.g., written reports completed by the applicant or other representative samples of professional writing skills).
  - Students with writing deficiencies may be admitted conditionally pending successful completion of the online course ENC 3250: Professional Writing
- Possess basic computer competency
- Submission of three letters of recommendation

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Biomedical/Pharmaceutical Specialization (21 sh)

BSC	5459	Introduction to Bioinformatics	3
BSC	6415	Pharmaceuticals: Development, Manufacturing and Testing	3
BSC	6841	Advances in Biomedical Sciences	3
BSC	6941	Internship in Biomedical/Pharmaceutical Industry……	6
HSC	5655	Theoretical Foundations of Health Care Ethics	3
HSC	6000	Professional Development in Biomedical/ Pharmaceutical Sciences	3

DATABASE ADMINISTRATION SPECIALIZATION

The Specialization in Database Administration is an interdisciplinary degree designed to prepare students for leadership roles in database fields in public, nonprofit, and private organizations. Coursework also prepares students for admission to doctoral programs and professional schools.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing sections for Computer Science/Software Engineering specialization or Graduate Record Examination (GRE) Quantitative and Analytical Writing sections for Computer Science/Computer Science specialization
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant's motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant.
- Indication of the applicant's ability to succeed in a graduate program as reflected in three letters of recommendation

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Database Administration Specialization (21 sh)

CAP	5771	Data Mining	3
COP	5725	Database Systems	3
COP	5775	Database Administration	3
COP	6727	Advanced Database Systems	3
EME	6357	Tools for HPT Evaluation	1.5
EME	6936	Seminar in HPT Issues: Human-Computer Interaction	1.5
EME	6946	Field Experiences in Instructional and Performance Technology	3

Choose one:

EME	6429	Human Performance Improvement	3
PAD	6417	Public Service Human Resource Management	3

HEALTHCARE ADMINISTRATION SPECIALIZATION

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate Senior Year/Major GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Submission of three letters of recommendation

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Health Care Administration Specialization (21 sh)

HSC	6206	Community Health Delivery Systems	3
PAD	6227	Public Budgeting	3
PAD	6417	Human Resources Management for Public Organizations	3

Choose four (including at least two at the 6000 level):

BUL	5605	Legal Fundamentals of Health Care and Public Health	3
HSA	5197	Introduction to Medical Informatics	3
HSA	5436	Health Economics	3
HSA	5438	Business Analysis and Decision Making in Health Care	3
HSA	6254	Critical Analysis of Health	3
HSC	5135	Health Guidance	3
HSC	5506	Advanced Epidemiology	3
HSC	5716	Planning, Implementing, & Evaluating of Health Programs	3
HSC	6667	Social Marketing of Health Education	3
PAD	6275	Political Economy of Public Administration	3
PHC	5355	Fundamentals of Occupational Safety and Health	3
PHC	6251	Disease Surveillance and Monitoring	3
PUP	5045	Analytic Techniques for Public Policy Analysis	3
5000/6000 level Health Science (HSC) elective			3

HUMAN PERFORMANCE TECHNOLOGY SPECIALIZATION

This online specialization combines a business perspective with HPT theories and perspectives. It is designed to help individuals develop proficiencies in resolving performance problems in military, business and industry, and educational systems. Graduates of the program work in a variety of settings, partnering with management to achieve optimal employee performance. They often serve as performance consultants in human resource and training departments with a human performance improvement focus. Graduates of this program are trained to do the following:

- Lead and manage HPT initiatives and processes in a variety of environments, working effectively with others to accomplish organizational goals
- Analyze complex, real-world individual and organizational goals
- Design, develop, implement, and evaluate interventions in a wide variety of settings
- Organize, manage, and evaluate business environments

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Academic preparation
- Department review

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

HPT Specialization (21 sh)

Additionally, a culminating experience as determined with academic advisor and chairperson is required.

EME	5355	Instructional Design for HPT	1.5
EME	6356	Performance Analysis for HPT Environments	1.5
EME	6357	Tools for HPT Evaluation	1.5
EME	6426	HPT Interventions	3
EME	6427	Implementing HPT Interventions	3
EME	6428	Evaluating HPT Interventions	3
EME	6429	Human Performance Improvement	3
EME	6936	Seminar in HPT Issues: Human-Computer Interaction	1.5

Choose one:

*EDF	6404	Educational Statistics I	3
*EDF	6481	Educational Research	3
EME	6408	Integrated Technology Learning Environments	3
EME	6414C	Web-Based Instructional Tools for Educators…	3
EME	6425	Electronic Performance Support System (EPSS)	3
EME	6628	Contract Administration: Large Scale Instructional Technology Systems	3
EME	6946	Field Experiences in Instructional and Performance Technology	3

* Strongly recommended as additional courses for students who plan to pursue a specialist or doctoral degree.

LEADERSHIP SPECIALIZATION

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Graduate GPA, if applicable
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Leadership Specialization (21 sh)

EDG	6915	Action Research for Leaders	3
EME	6314	Technology for Leaders	3
PAD	5434	Leadership	3
PAD	6425	Public Service Conflict Management and Resolution	3
PAD	6137	Project Leadership and Administration	3

Choose two:

PAD	5386	Leadership, Community, and Change	3
PAD	5107	Modern Public Organization Theory	3
PAD	5605	Administrative Law	3
PAD	6335	Strategic Management for Public and Nonprofit Organizations	3
Advisor approved courses			3-6

NURSING ADMINISTRATION SPECIALIZATION

The Nursing Administration specialization is designed to provide BSN-prepared nurses with a strong background in the functional areas of business provided by the M.S.A. core. The lineup of courses in the specialization focuses on development of skills and knowledge in nursing administration and related topics in health care. The latter includes Nursing Management of Human and Financial Resources, Health Economics, Health Care Marketing, Nursing Leadership Development, Nursing Care Planning and Management, and Nursing Administration Role Practicum. This specialization will help address the critical need for nurses qualified to work on the administrative side of health care as directors of nursing and in other administrative roles requiring a solid background in the clinical sciences and a solid skill-set in business. Students wishing to earn a M.S.N. and a M.S.A. in Nursing Administration must complete the core courses in both the M.S.N. and the M.S.A. before completing the M.S.N. in Nursing Administration Specialty courses. Both degrees will be conferred upon completion of all requirements.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal, Quantitative, and Analytical Writing scores
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Submission of a letter of intent addressing how an MSA will help you attain your professional and personal goals.
- Submission of current curriculum vita (CV)/résumé

If an applicant is unable to meet the above criteria, they may petition the Nursing Department Graduate Admissions Committee and request a special review

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Nursing Administration Specialization (21 sh)

HSA	5161	Marketing for Nursing Administration	3
HSA	5436	Health Economics	3
NGR	6833L	Nursing Administration Role Practicum (taken two times for a total of 6 sh)	6
NGR	6722	Nursing Management of Human & Financial Resources	3
NGR	6723	Nursing Leadership Development	3
NGR	6724	Health Care Planning and Management in Nursing	3

PUBLIC ADMINISTRATION SPECIALIZATION

The Public Administration Specialization is designed to provide students with the knowledge and skills to effectively manage agencies and people in public and nonprofit organizations.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Graduate GPA, if applicable
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Public Administration Specialization (21 sh)

PAD	5107	Modern Organizational Theory	3
PAD	5605	Administrative Law	3
PAD	6227	Public Budgeting	3
PAD	6275	Political Economy of Public Administration	3
PAD	6417	Human Resources Management for Public Organizations	3

Choose two:

PAD	5434	Leadership	3
PAD	5635	Government Contract Law	3
PAD	5855	Acquisition Administration	3
PAD	6041	Public Administration Ethics	3
PAD	6053	The Public Administration Professional	3
PAD	6425	Public Service Conflict Management and Resolution	3
PAD	6706	Public Administration Research Methods	3
PUP	5045	Analytic Techniques for Public Policy Analysis	3

SOFTWARE ENGINEERING ADMINISTRATION SPECIALIZATION

The specialization in Software Engineering Administration is an interdisciplinary degree offered entirely online and is designed to prepare students for leadership roles in organizations of diverse domains that develop and maintain software systems for research, commercial, and internal use. Coursework also prepares students for admission to doctoral programs and professional schools.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing sections for Computer Science/Software Engineering specialization or Graduate Record Examination (GRE) Quantitative and Analytical Writing sections for Computer Science/Computer Science specialization
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major

- The applicant's motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant.
- Indication of the applicant's ability to succeed in a graduate program as reflected in three letters of recommendation

M.S.A. Core (12 sh)

EME	6358	Evaluation for M.S.A. Professionals	1.5
GEB	5870	MBA Foundations: e-Business Systems	1.5
GEB	5871	MBA Foundations: Managerial Economics	1.5
GEB	5872	MBA Foundations: Financial Management I	1.5
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
GEB	5876	MBA Foundations: Marketing Management	1.5
MAN	6156	Management and Organizational Behavior	3

Software Engineering Administration Specialization (21 sh)

CEN	6016	Software Engineering Process	4
CEN	6095	Software Engineering Practice and Tools	4
COT	5930	Computer Science and Software Engineering Seminar	3
COP	5725	Database System	3
COT	6931	Computer Science Project	6

Advisor Approved Elective to meet minimum of 33 credit hours.

ANTHROPOLOGY

Degree: Master of Arts (M.A.)
Department: Anthropology
Building 13, Room 131
(850) 474-2797
http://uwf.edu/anthropology/
anthropology@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/anthropology/facstaff/

The Anthropology Master of Arts program prepares graduates for a variety of professional positions and entrance into doctoral programs. The department's approach combines a strong anthropological perspective, an active faculty, a vigorous research and contract program, flexibility, and many opportunities to obtain hands-on experience. The department has one of the largest and most active terrestrial and maritime archaeology programs and facilities in the Southeast. There is continuous on-going student-focused research and contracts in prehistoric, historic, coastal, and interior archaeological sites that include graduate students at all levels of responsibility.

Financial assistance includes many research assistantships in terrestrial and maritime archaeology through the Archaeology Institute, grants and contracts, internships, and the Marcus Fellowship for thesis completion.

This program requires a thesis. Students must complete all common core courses, but the remainder of their course work can be structured according to their interests with the approval of their advisor or committee. Up to 6 sh can be taken outside Anthropology.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Graduate Record Examination (GRE) score
- Undergraduate cumulative GPA
- Undergraduate degree major
- Submission of a formal letter of intent describing background, study interests, and professional goals
- Submission of a writing sample (term paper, conference paper, published paper, etc.)
- Submission of three letters ofacademic reference

The Anthropology graduate program emphasizes multidisciplinary and collaborative study and research. Admission exceptions can be made for promising students with prior degrees in different fields. Incoming students without a degree in Anthropology can become eligible for admission with the completion of upper division undergraduate level core courses in anthropology with a grade of "B" or higher. The core courses must include cultural anthropology, biological anthropology, archaeology, and theory.

DEGREE REQUIREMENTS

All work toward the Master's degree, including thesis, must be completed within four years from the semester of the first graduate course taken.

All admitted students are assigned a graduate advisor upon admission to the program. All course work must be approved in writing each semester by this advisor and filed with the department chair prior to registration for courses.
At the end of the third semester of courses, graduate students must form a Thesis Committee consisting of three faculty members. The chair must have a doctoral degree in Anthropology. One committee member may be from outside the department, and a fourth member may be added from another University or college with permission of the committee and department chairs.

Continuation of graduate students in the program is dependent on the following:

- Maintenance of a 3.0 or higher GPA
- Achieving no less than a C in any course
- A grade lower than a B- will not satisfy program requirements

All students must complete all 5 required core courses, an additional course in each subfield, a research tool if necessary, and three electives that are approved by their advisor or Thesis Committee.

Program Capstone

Thesis

Graduate students must prepare a formal Thesis Proposal for their committee's approval. When successfully completed, the graduate student will be allowed to begin his or her thesis. Theses must be approved by the thesis committee and successfully defended by the candidate in an open defense.

ANTHROPOLOGY

FOUNDATIONAL PROFICIENCIES

A baccalaureate degree in Anthropology is preferred, but completion of upper division undergraduate level core courses in Anthropology with a grade of "B" or higher is acceptable. The core courses must include Cultural Anthropology, Biological Anthropology, Archaeology, and Theory.

DEGREE REQUIREMENTS

Anthropology Core (15 sh)

ANG	6110	Advanced Method and Theory in Archaeology Seminar	3
ANG	6286	Contemporary Cultural Anthropology Theory	3
ANG	6583	Evolutionary Theory in Biological Anthropology	3
ANG	6002	Proseminar in Anthropology	3
ANG	6093	Research Design in Anthropology	3

Electives (18 sh)

Elective courses, at the 5000 level or higher, will be structured according to student interests with the approval of their Graduate Advisor or Thesis Committee. 18

Research (3+ sh)

ANG	6971	Anthropology Thesis	3+

Course offered 1-6 sh per semester

HISTORICAL ARCHAEOLOGY

The Historical Archaeology Specialization in the Anthropology Master's Program is designed for students with a strong interest in the archaeology of the post-Columbus period and the combined use of documents and archaeology. The program consists of 36 sh, and it is designed for students with a baccalaureate degree in Anthropology or History who want to pursue a professional career in either terrestrial or maritime Historical Archaeology or continue to a doctoral program. The degree will qualify the graduate for entry level professional positions in cultural resource management in private business or government agencies at the national, state, and local level. The degree also qualifies graduates for professional positions in some aspects of public archaeology, historic preservation, and University research institutions and centers.

FOUNDATIONAL PROFICIENCIES

ANT 2511/L Biological Anthropology/Lab 4
ANT 3101 Principles of Archaeology 3
ANT 3212 Peoples and Cultures of the World..... 3
ANT 4121, ANT 4824, or ANT 4835
Archaeological Field Methods..... 1-9
(Course offered 1-9 sh per semester)

DEGREE REQUIREMENTS

Historical Archaeology (15 sh)

ANG 5172 Historical Archaeology Seminar..... 3
ANG 5173 Historical Research Methods in Archaeology 3
ANG 6110 Advanced Method and Theory in Archaeology Seminar..... 3
ANG 6196 Policies, Practices, and Archaeology in Historic Preservation..... 3
ANG 6824 Advanced Archaeological Field Methods 3

History (9 sh)

5000/6000 level advisor or committee approved History courses..... 9

Electives (9 sh)

5000/6000 level advisor or committee approved Anthropology, History, or area of research-related courses 9

Research (3+ sh)

ANG 6971 Anthropology Thesis..... 3+
Course offered 1-6 sh per semester

BIOLOGY, MASTER OF SCIENCE

Degrees: Master of Science (M.S.)
Master of Science in Teaching (M.S.T.)
Department: Biology
Building 58, Room 79
(850) 474-2748
http://uwf.edu/biology/
biology@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/biology/facstaff/

The M.S. in Biology offers five areas of specialization:
- Biology Specialization (Thesis) (M.S.)
- Biological Chemistry Fast Track Bachelors to Master's Specialization (Thesis) (B.S./M.S.)
- Biotech Fast Track Bachelors to Master's Specialization (Thesis) (B.S./M.S.)
- Coastal Studies Specialization (Non-thesis) (M.S.)
- Environmental Biology Specialization (Non-thesis) (M.S.)

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:
- Graduate Record Exam (GRE) Verbal score of at least 450 and Quantitative score of at least 550 (based on distributions of scores of recent Life Sciences test takers).
- Earned baccalaureate degree
  - ***Thesis Track***: Applicants for the thesis track should hold a B.S. in Biology or a related field from an accredited college or University. Applicants applying for admission to the thesis track with a B.A. in Biology or a B.S. degree in another area must have satisfactorily completed all upper and lower division core classes (or equivalents) required of UWF biology undergraduates.
  - ***Non-Thesis Track*** Applicants applying for admission to the non-thesis tracks with a B.S. or B.A. in another discipline should have completed General Zoology, General Botany, Cell Biology, Genetics, and Ecology. For students in the non-thesis tracks, prior to registration students must consult with the faculty advisor assigned to oversee the program into which the student has been accepted. Applicants for the thesis track must have a faculty member who has agreed to provide laboratory space and serve as the applicant's major advisor.
- Submission of a letter describing the student's area of interest within biology, relevant past experience, future objectives, and, for students applying to the thesis track, the name of a UWF faculty member who has agreed to serve as their thesis advisor.
- Submission of three letters of recommendation from individuals who can evaluate the student's academic ability.
- Applicants for the thesis track must have a faculty member who has agreed to provide laboratory space and serve as the applicant's major advisor. Applicants are urged to speak with prospective faculty advisors prior to the application deadline date. For students in the non-thesis tracks, prior to registration, students must consult with the faculty advisor assigned to oversee the program into which the student has been accepted.

Department Guidelines

Applicants are urged to speak with prospective faculty advisors prior to the application deadline date. Individual faculty members may request exemptions from some of the departmental but not University requirements listed above for specific students. Students desiring to transfer from a non-thesis to a thesis specialization must fulfill all requirements for admission to that specialization.

Prospective students must submit the materials by the first Monday in June to be considered for admission in the fall semester or by the first Monday in October to be considered for spring admission, and the first Monday in March for admission in the summer semester. To be considered for financial aid within the department, all prospective students for each academic year must also submit these materials by the first Monday in March.

The completed application will be reviewed by the faculty and by the graduate program committee. Conditional admission may require the student to complete the appropriate foundation courses with grades of "B" or better. Only complete applications will be reviewed. Students must also complete a departmental data sheet as part of the admission process. Students will be notified of the final decision on their admission to the program.

BIOLOGY SPECIALIZATION (THESIS)

The thesis program is designed for students seeking advanced studies in areas of modern biology and biotechnology with training in the fields of aquaculture, biochemistry, ecology, environmental studies, fisheries biology, genetics, immunology, marine biology, microbiology, molecular biology, plant science, and physiology.

In addition to the University's general academic requirements, students seeking the M.S. degree in Biology must meet the following departmental requirements:
- Select a thesis advisory committee composed of a chairperson and at least two additional faculty members.
- Meet with the thesis advisory committee and complete a written plan of study that specifies courses and other work necessary for the program.
- Submit a written research proposal acceptable to the thesis supervisory committee and demonstrate by oral examination that the proposed research is feasible.

- Complete a minimum of 33 semester hours of credit approved by the thesis committee. Fifteen of these hours must be at the 6000 level, and must include the four graduate core courses (BSC 6002L, BSC 6840, PCB5924, and PCB 6074) and may include six semester hours of thesis. Six semester hours or two courses of UWF upper division undergraduate credit in biology that has not been counted toward another degree may be approved as part of the program. All students in the program must enroll in one semester of Biology Seminar (PCB5924).
- Submit an acceptable thesis and successfully defend it in an oral public presentation.

BIOLOGICAL CHEMISTRY FAST TRACK BACHELORS/MASTERS SPECIALIZATION

This specialization is available as a stand-alone master's degree or as part of a fast track degree program that includes both the bachelor's and master's degrees. Students who already hold a bachelor's degree in biology or chemistry must complete the admission requirements previously listed for the master's in biology. Students currently enrolled in the fast track biological chemistry specialization must complete the admission requirements previously listed for the master's in biology with the exception of having earned a baccalaureate degree.

Following acceptance into the program, students seeking the M.S. degree in biology must meet the following departmental requirements:

- Select a thesis advisory committee composed of a chairperson and at least two additional faculty members, at least one of whom is on the faculty of the Department of Chemistry. Chemistry faculty may serve as chairperson of the thesis advisory committee if their research is the primary site for the conduct of the thesis research.
- Meet with the thesis advisory committee and complete a written plan of study that specifies courses and other work necessary for the program.
- Submit a written research proposal acceptable to the thesis committee and demonstrate by oral examination that the proposed research is feasible.
- Complete a minimum of 34 semester hours of credit.

Biological Chemistry Requirements (34sh)

BSC	6002L	Contemporary Laboratory Skills	4
BSC	6840	Professional Development in Biology	3
PCB	6074	Experimental Design in Biology	3

Choose 18 sh:

BSC	5459	Introduction to Bioinformatics	3
CHM	5134	Instrumental Analysis	4
CHM	5932	Seminar: Special Topics in Advanced Chemistry	3
PCB	5525	Genetic Engineering	3
PCB	5527/L	Molecular Biology/Lab	4
PCB	5235/L	Immunology/Lab	4

Choose one (6 sh):

BCH	6107	Thesis	6
PCB	6971	Thesis	6

Students must submit an acceptable thesis and successfully defend it in an oral public presentation. Total semester hours for completion of the entire Fast Track Bachelor's/Master's Program is 139 (compared to 152 by normal route). The Chairs of Biology and Chemistry are liaison officers for the program - jointly in charge of changes in the program and in course requirements.

Students with a four-year degree in chemistry who wish to enter the Biological Chemistry Master's Program may enter the program as a non-degree student and must have had or must take all of the following courses prior to full acceptance into the master's program in Biological Chemistry:

BCH	3033/L	Biochemistry I/Lab	4
BCH	3034/L	General Biochemistry: Metabolism/Lab	4
BOT	2010/L	General Botany/Lab	4
MCB	3020/L	Microbiology/Lab	4
PCB	3063/L	Genetics/Lab	4
ZOO	1010/L	General Zoology/Lab	4

BIOTECH FAST TRACK BACHELORS/MASTERS SPECIALIZATION

In addition to general University requirements, students seeking the Fast-Track B.S./M.S. in Biology must meet the requirements listed below. A grade of "C" or better is required in each of the five biology core courses. Consult with your academic advisor for courses which may satisfy both the General Studies requirements and common prerequisites.

Since this program encompasses a Master's Degree in Biology, students must be accepted into the master's program during the summer of the third year in the program. Applicants should refer to the Admission Requirements Section listed above.

Students eligible for Express Admission must submit a UWF Graduate Admission Application (GAA) or an Express Admission Application. Eligible students will have the application fee waived and must only comply with bullets 1 and 3 listed under the Admission Requirements Section above.

The completed GAA will be reviewed by the faculty and by Biology's Graduate Admissions Committee. Conditional admission may require the student to complete the appropriate foundation courses with a grade of "B" or better. Designated University deadlines for admission will apply for consideration for financial assistance from the department. Only complete applications will be reviewed. Students must also complete a departmental data sheet as part of their admissions process. Students will be notified on the final decision on their admission to the program.

Following acceptance into the program, students seeking the M.S. degree in Biology must meet the following departmental requirements:

- Students enrolled in the thesis option must select an advisory committee composed of a chairperson and at least two additional faculty members, including the major professor selected early in the application process.

- Thesis option students must meet with their thesis advisory committee and complete a written plan of study that specifies courses and other work necessary for the program. Students in the non-thesis option must meet with the non-thesis advisor and create a plan of course work, directed studies, and internship. Among the graduate course requirements (see below), 15 hours must be at the 6000-level and may include 6 hours of thesis for thesis option students, or, for non-thesis option students, 3 hours of 6000-level Directed Studies, and 3 hours of 6000-level internship in biotechnology or related industry, or 6 hours of internship in Biotechnology or related industry. All students in the program must enroll in one semester of Biology Seminar (PCB5924).
- Students in the thesis option must submit the written research proposal acceptable to the thesis supervisory committee and demonstrate by oral exam before the thesis advisory committee that the proposed research is feasible. Students in both options must complete a minimum of 33 semester hours of credit approved by their thesis committee or the non-thesis advisor.

Lower division courses in undergraduate degree as established in catalog. (60 HRS)

UPPER DIVISION Undergraduate

BCH	3033/L	Biochem I 4
BCH	3034/L	Biochem/Metabolism 4
CGS	3464	Programming Using Visual Basic for Non-Majors 3
MCB	3020/L	Microbiology 4
PCB	3063/L	Genetics..... 4
PCB	4043/L	Ecology 4
PCB	3253/L	Developmental Biology
or		
BOT	4374/L	Plant Development 4
PCB	4524/L	Molecular Biology 4
BOT	4734/L	Plant Biotech 4
BOT	4503/L	Plant Physiology
or		
PCB	4723/L	Animal Physiology 4

Upper division electives (may include 2 hrs of Directed Studies) 5

44 HRS UPPER DIVISION- 104 total hrs for the B.S. M.S., and B.S. will be conferred simultaneously. If the student does not complete the M.S. they will have to complete all 120 hrs for the B.S. to earn that degree alone.

Graduate-level courses (33 sh)

BSC	5459	Introduction to Bioinformatics..... 3*
BSC	6002L	Contemporary Methods in Biology 4
BSC	6840	Professional Development..... 3
PCB	5235/L	Immunology..... 4*
PCB	5525	Genetic Engineering 3*
PCB	5526/L	Molecular Genetics..... 4*
PCB	5924	Biology Seminar..... 1
PCB	6074	Experimental Design in Biology 3
STA	5 - - -	Any graduate statistics class..... 3*

Thesis Option: 6 hrs of Thesis = 33 hrs. Total for both degrees: 137 hrs

Non-Thesis Option: 3 hrs of 6000-level Directed Study and 3 hrs of 6000-level Internship at a biotech company or related business, or 6 hrs of 6000-level internship at a biotech company or related business.

COASTAL ZONE STUDIES SPECIALIZATION (NON-THESIS)

In this non-thesis specialization, students will learn methods to identify and solve problems, management practices, and procedures for policy-making as they pertain to a coastal zone. Students with bachelor's degrees in the physical sciences, geography, and resource management are encouraged to apply.

FOUNDATIONAL PROFICIENCIES

Students must take the following courses or their equivalent.

BOT	2010/L	General Botany 4
PCB	2131/L	Cell Biology 4
PCB	3063/L	Genetics..... 4
PCB	4043/L	Ecology 4
ZOO	1010/L	General Zoology..... 4
STA	2023	Elements of Statistics 3
STA	4173	Biostatistics 3
GIS	3015/L	Cartographic Skills 4
		(A skills test can substitute for GIS 3015/L)

DEGREE REQUIREMENTS

Prior to registration the student will meet with the program advisor and discuss a plan for completing the required course work. The student must complete 36 sh of course work composed of the required selections from the list below and from graduate electives as indicated:

BSC	5905	Directed Study..... 2
BSC	6002L	Contemporary Laboratory Skills 4
BSC	6329	Coastal Studies Seminar..... 1
BSC	6840	Professional Development in Biology..... 3
BSC	6905	Directed Study..... 4
GEO	5225/L	Coastal Morphology and Processes/Lab 4
PCB	5446/L	Wetlands Ecology/Lab..... 4
PCB	5924	Biology Seminar 1
PCB	6074	Experimental Design in Biology 3

5000/6000 level advisor approved courses 3-4 (4 hrs is needed if GIS4043/L is selected below)

Choose one:

GIS	4035/L	Photo Interpretation & Remote Sensing/Lab. 4
GIS	4043/L	Geographic Information Systems/Lab..... 3

Choose one:

EVR	4023	Coastal & Marine Environments 3
EVR	4035	Environmental Law..... 3

ENVIRONMENTAL BIOLOGY SPECIALIZATION (NON-THESIS)

There is a great demand from local, state, and federal government, as well as from industry, for students with a strong background in environmental biology.

FOUNDATIONAL PROFICIENCIES

BOT	2010/L	General Botany 4
PCB	2131/L	Cell Biology 4
PCB	3063/L	Genetics..... 4
PCB	4043/L	Ecology 4
ZOO	1010/L	General Zoology..... 4

STA	2023	Elements of Statistics	3
STA	4173	Biostatistics	3
GIS	3015/L	Cartographic Skills (A skills test can substitute for GIS 3015/L)	4
GIS	4043/L	Geographic Information Systems (requires GIS 3015/L)	4

DEGREE REQUIREMENTS

Prior to registration the student will meet with the program advisor and discuss a plan for completing the required course work. The student must complete 36 semester hours of course work composed of the required selections from the list below and from graduate electives as indicated:

BSC	5305	Biogeography	3
BSC	6002L	Contemporary Laboratory Skills	4
BSC	6329	Coastal Studies Seminar	1
BSC	6840	Professional Development in Biology	3
BSC	6905	Directed Study	4
GIS	5100	Appl. Geographic Information Systems	3
PCB	5446/L	Wetlands Ecology w/Lab	4
PCB	5924	Biology Seminar	1
PCB	6074	Experimental Design in Biology	3
PHC	6310	Environmental Toxicology (on line)	3
5000/6000 level advisor approved courses			7

POST-SECONDARY TEACHING SPECIALIZATION (NON-THESIS)

This non-thesis track in the M.S.T. program is designed to prepare students to teach in the biological sciences at the post-secondary level. Applicants should have a bachelor's degree in some discipline of biological science from an accredited institution. Applicants holding the bachelor's degree in some other discipline will be considered using criteria appropriate to their backgrounds. Completion of Florida teacher certification is not an exit requirement for this track in the MST program.

DEPARTMENT REQUIREMENTS

Students must meet the following requirements to satisfy the Biology Department. Students must meet with their assigned advisor assigned program prior to matriculation into the M.S.T. program. The committee allowing students admittance into the program will be composed of a major advisor and one additional faculty member, both from biology.

Biology M.S. in Teaching (36 sh)

Of the 36 sh, students must complete 15 sh at the 6000 level.

EDF	6218	Psychological Foundations for Education: Learning and Instruction (or supervisory committee approved substitute)	3
EDF	6602	Trends and Issues in Education: Social, Multicultural, Historical and Philosophical Analysis (or supervisory committee approved substitute)	3
Formal courses			21
Formal college-level course in evolution			3
6000 level, committee-approved directed study (Must involve exposure to experimental or sampling design, data collection and analysis, and presentation of results to the supervisory committee)			3

Choose two, yielding at least 8sh:

Botany, ecology, molecular biology, microbiology, physiology, zoology	8+

Instructional Methods (6sh)

As part of this course, the student will serve as a teaching assistant during the first semester, and as instructor of record during the second semester in a lower or upper division undergraduate course to be determined by the program advisor in conjunction with the Chairperson of Biology. In addition, students will participate in the design and presentation of laboratories and will be graded on both their presentation and design by the faculty member in charge of the course in which they are serving as teaching assistant or instructor of record.

BSC	6018	Instructional Methods in Biology (Two semesters at 3 sh each)	6

BUSINESS ADMINISTRATION

Degree: Master of Business Administration (M.B.A.)
Certificate: Entrepreneurship
Organizational
Development Leadership
Department: College of Business Dean's Office
Building 75, Room 101
(850) 474-3124
http://uwf.edu/mba
mba@uwf.edu
College: Business

Faculty: http://uwf.edu/cob/directory.cfm

The M.B.A. program develops the skills of management, the tools of problem-solving, the capacity for decision-making, and the knowledge about formal organizations and their economic environment. The program prepares graduates for leadership positions in a variety of managerial and organizational settings. Admission to the M.B.A. program does not require an undergraduate business degree. However, prerequisite business proficiencies are needed and can be completed quickly through accelerated foundations. Approximately one-third of the students in the program enter with no previous business course work. The program of study leading to the M.B.A. degree is a 30 sh program designed to provide both a general view of business and a specialized focus through the portfolio. Before beginning core classes, each student must choose an industry for their portfolio. The portfolio gives the student the opportunity to focus in-depth research in an industry selected by the student. Five of the MBA core courses (ECP 6705, FIN 6406, ISM 6026, MAN 6511, and MAR 6815) require projects that are included in the student's portfolio. During the last semester of the M.B.A. program, the student is required to submit his or her portfolio for review by the director. An exit interview is also conducted and is a requirement for graduation. Students must have a 3.0 (B) or higher GPA to meet graduation requirements.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- performance on the Graduate Management Admissions Test (GMAT) or Graduate Record Examination (GRE), including the Analytical Writing score
- academic achievement as demonstrated by undergraduate cumulative grade point average (GPA)
- accreditation of degree granting institution
- business course academic preparation
- graduate level motivation and writing abilities as noted in essay responses
- leadership experience and potential as noted in two letters of recommendation
- a record of appropriate employment at increasing levels of responsibility via résumé
- other qualifications that illuminate future MBA potential

Primary consideration will be given to the applicant's academic record and scores on the GMAT.

The credentials of applicants who do not meet minimums for these criteria are reviewed further to determine if other factors are sufficient to warrant admission. A student needing prerequisite foundation courses for the M.B.A. program may take them as a non-degree student. However, only students who have been fully admitted to candidacy in the M.B.A. program will be permitted to enroll in the required core courses of the M.B.A. degree.

Application and Advising

Inquiries should be addressed to the M.B.A. Office. The M.B.A. Office will assist in all matters of application, admission, degree planning, and graduation. All students planning to enter the M.B.A. program must meet with an advisor to develop a degree plan. Transcripts and results of the graduate admission test should be submitted to the Graduate School at the time of application. The program is administered by the M.B.A. committee, which consists of the director and faculty members from the areas of accounting, finance, marketing, economics, management, and management information systems.

In addition to the University's general requirements, students seeking the M.B.A. degree must meet the following degree requirements.

FOUNDATIONAL PROFICIENCIES

Admission to candidacy in the M.B.A. program is gained by demonstrating proficiency in the areas of accounting, business communications, economics, finance, management, management information systems, marketing, and statistics. These proficiencies may be gained by completion of the following group of UWF courses:

ACG	2021	Financial Accounting 3
ACG	2071	Managerial Accounting 3
ECO	3003	Principles of Economic Theory and Public Policy 3 (Or both ECO 2013 and ECO 2023-6 sh)
FIN	3403	Managerial Finance 3
GEB	6215	Business Communications .....3 (Or both GEB 3212 and COM 4110-6 sh)
ISM	3011	e-Business Systems Fundamentals 3
MAC	2233	Calculus with Business Applications 3
MAN	3025	Management Fundamentals 3
MAR	3023	Marketing Fundamentals 3
STA	2023	Elements of Statistics 3

These proficiencies may be demonstrated by satisfactory completion of equivalent courses. Courses that are not compliant with the time to degree policy must be reviewed to determine proficiency. Accelerated Foundations, designed for students with no prior business course work or those who still need select prerequisites, are available and offer a means to quickly meet the foundation proficiencies needed to begin the core program. Accelerated Foundations are a series of 1.5 credit hour, intensive, weekend modules that cover the essential foundational knowledge in each of the prerequisite business subjects. For more information about this option, please contact the M.B.A. Office.

DEGREE REQUIREMENTS

Candidates admitted to the MBA program are required to complete all courses with a "C" grade or better and maintain an overall graduate GPA of 3.0 (B) or better. Enrollment in these courses is generally limited to MBA candidates.

First Level

ACG	6309	Accounting Aspects of Business Policy Determination	3
GEB	6895	Business & Public Policy	3
ISM	6026	Management of Information Systems & Technology	3
MAN	6156	Management & Organizational Behavior	3
QMB	6305	Quantitative Methods for Business	3

Second Level

ECP	6705	Advanced Managerial Economics	3
FIN	6406	Financial Management	3
MAN	6511	Operations Management Problems	3
MAR	6815	Marketing Management	3

Third Level

MAN	6721	Strategic Management & Policy Formulation	3

CERTIFICATE PROGRAMS

Contact the M.B.A. Office for information concerning certificate programs.

COLLEGE STUDENT PERSONNEL ADMINISTRATION

Degree: Master of Education (M.Ed.)
Department: Professional and Community Leadership
Building 77, Room 143
(850) 474-2251
http://uwf.edu/csps/
copsgrad@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/cops/faculty/index.cfm

The College Student Personnel Administration (CSPA) program is designed for those students interested in higher education administration, particularly in the various student affairs and student services areas. Program participants will prepare for careers involving organizational management, student development, leadership training, and administration. Guided by the Council for the Advancement of Standards in Higher Education (CAS), the curriculum includes selected foundational studies; student development theory; student characteristics and effects of college on students; individual, group, and organizational interventions; organization and administration; and assessment, evaluation, and research. The program also includes substantial supervised internship opportunities.

The Master's degree in College Student Personnel Administration is a 36 sh program designed to be completed in two years. The program includes a professional core of 27 sh plus 9 sh of appropriate electives. Three hours of internship experience is included in the professional core. Internships are available in a wide variety of student affairs and student service areas.

A quality academic program is enhanced by the opportunity for pre-professional work experience. A number of students in the program will have the opportunity for significant and meaningful work responsibilities that will translate directly into powerful résumés. Various student service areas of The University of West Florida offer several compensated assistantships including: the Dean of Students office, residence life facilities and programs, student union operations and management, student activities and campus programming, Greek affairs, recreation facilities and program, orientation and other student transition programs, student development services, academic advising, and career services.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Submission of letter of intent describing reasons for applying to the program and associated career goals
- Submission of three letters of recommendation including one professional reference and one academic reference
- Submission of résumé
- Fit with program

FOUNDATIONAL PROFICIENCIES

EDF	6404	Educational Statistics I	3
EDF	6481	Educational Research	3
EDF	6464	Applied Program Evaluation	3

DEGREE REQUIREMENTS

To be eligible for a M.Ed. degree in College Student Personnel Administration, a student must do the following:

- Be admitted to the program
- Submit an approved degree plan which includes at least 36 semester hours
- Complete degree requirements compliant with the time to degree policy
- Be recommended for graduation by the Division of Professional and Community Leadership

CSPA Core (27 sh)

EDH	5070	Assessment Issues in College Student Affairs	3
EDH	5040	The American College Student: Theories and Trends	3
EDH	6405	Legal Issues in Higher Education	3
EDH	6505	Budgeting, Finance and Governance in Higher Education	3
EDH	6634	Introduction to College Student Personnel	3
EDH	6948	Internship in Higher Education	3
SDS	6642	Survey of Literature in College Student Personnel	3
5000/6000 level, advisor-approved electives			6

COMMUNICATION ARTS

Degree: Master of Arts (M.A.)
Certificate: Health Communication Leadership
Department: Communication Arts
Building 36, Room 178
(850) 474-2874
http://uwf.edu/commarts/
commarts@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/commarts/faculty/

The M.A. in Strategic Communication & Leadership is an innovative, interdisciplinary program provides in-depth knowledge of communication strategies that stimulate ongoing innovation, team-building, empowerment, and service excellence. Students in the program are actively engaged in roundtable discussions, projects, and specialized research about communication challenges and career options that interest them. Classes focus on leadership techniques and actual communication challenges using an integrated approach grounded in research, goal-setting, teamwork, strategy-building, ongoing assessment, and an appreciation for diversity and innovation. The program involves a mix of theory and research, skills training, and current issues in a range of contexts including media, health, public affairs, politics, nonprofits, and computer-mediated environments. The master's degree includes 12 graduate-level courses and an optional four-course certificate Health Communication Leadership, one of the fields of highest career growth in the country.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 470 and Analytical Writing score of at least a 4.0
  - Miller Analogies Test (MAT) scaled score of at least 413
  - Graduate Management Admissions Test (GMAT) composite score of at least 400
- Minimum undergraduate cumulative GPA of 3.2 on a 4-point scale
- Undergraduate degree in related field
- Submission of Departmental Admission Application
- Submission of three letters of reference
- Submission of current curriculum vita (CV)/ résumé

Interested persons should apply to the University through the Graduate School and contact the Department of Communication Arts to request a departmental application.

FOUNDATIONAL PROFICIENCIES

COM	5XX0	Introduction to Graduate Studies	1.5
STA	2023	Elements of Statistics	3

DEGREE REQUIREMENTS

COM	5206	Communication Training	3
COM	6XX0	Strategic Communication	3
COM	6207	Advanced Leadership Communication	3
COM	6312	Quantitative Research Methods	3

Advisor Approved Electives (9 sh)

Choose two:

COM	6XX4	Assessing Organizational Dynamics	3
JOU	6XX1	Interviewing and Information Gathering	3
SPC	6XX0	Strategic Approaches to Presentational Speaking	3

Choose four:

COM	5XX1	Computer Mediated Communication	1.5
COM	6XX1	Emerging Topics in Political Communication	1.5
COM	6XX2	Emerging Topics in Health Communication	1.5
COM	6XX3	Emerging Topics in Nonprofit Organizational Communication	1.5
COM	6XX5	Emerging Topics in Communication Law and Ethics	1.5
JOU	6XX0	Emerging Topics in Media Issues	1.5
PUR	6XX0	Emerging Topics in Public Affairs	1.5

Choose one:

COM	6027	Health Communication Leadership Project	3
COM	6930	Organizational Communication Project	3

COMMUNITY HEALTH EDUCATION

Degree: Master of Science (M.S.)
Certificate: Gerontology
Department: Health, Leisure, and Exercise Science
Building 72, Room 241
(850) 474-2592
http://uwf.edu/hles/
hles@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/cops/faculty/index.cfm

The M.S. in Community Health Education provides the student a choice of an Aging Studies, Health Promotion and Worksite Wellness, or Psycho-Social Specialization. Electives are carefully chosen by the student in consultation with an advisor. A thesis or an internship is not required, but a student may have the option of completing either one. However, students completing the specialization in Aging Studies are required to complete either a thesis or an internship.

Upon completing this degree, students will be prepared to sit for the CHES (Certified Health Education Specialist) exam. It is recommended that students in this program have current CPR certification while they pursue this graduate degree.

Contact the department for information concerning the certificate.

ADMISSIONS REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Undergraduate Senior Year/Major GPA
- Submission of letter of intent describing reasons for applying to the program and associated career goals
- Submission of three personal references
- Work Experience as reflected in a résumé (only for graduate assistants)

FOUNDATIONAL PROFICIENCIES

Students in the Health Promotion and Worksite Wellness and the Psycho-Social Specializations must have previous credit in human anatomy; physiology; or pathophysiology, general biology, and personal and community health; or equivalent. These courses are recommended for students in the Aging Studies Specialization.

AGING STUDIES SPECIALIZATION

The Specialization in Aging Studies is a degree designed to prepare graduate students for professional careers in the rapidly expanding field of aging. The program addresses the needs of students from a variety of academic backgrounds. Either a thesis or an internship is required.

DEP	4402	Adulthood and Aging	3
HLP	6535	Research Procedures	3
HLP	6595	Research Seminar	3
HSA	6521	Critical Analysis of Health	3
HSC	5037	Historical Foundations of Health Education	3
HSC	5602	Life, Illness,and Death	3
HSC	5716	Planning, Implementing, and Evaluating of Health Programs	3
PET	6074	Successful Aging/Physiological Aspects	3

Major Electives (9 sh)

Choose three (consult advisor):

HLP	6905	Directed Study	3
HLP	6922	Field Experience	3
HSA	5115	Health Care Policy and Administration	3
HSC	5506	Advanced Epidemiology	3
PAD	6701	Quantitative Application in Public Administration	3
PEP	5118	Aging and Physical Performance	3

Internship or Thesis (6 sh)

Choose one:

HLP	6940	Internship	6
HLP	6971	Thesis	6

HEALTH PROMOTION AND WORKSITE WELLNESS SPECIALIZATION

HLP	6535	Research Procedures	3
HLP	6595	Research Seminar	3
HSC	5037	Historical Foundations of Health Education	3
HSC	5506	Advanced Epidemiology	3
HSC	5716	Planning, Implementing, & Evaluating of Health Programs	3

Choose 24 sh including at least three courses at the 6000 level with no more than two courses at the 3000/4000 level:

HLP	6922	Field Experience	3
HLP	6940	Course offered 1-3 sh per semester Internship Course offered 3-6 sh per semester	3-6
HLP	6971	Thesis Course offered 1-6 sh per semester	6
HSA	6521	Critical Analysis of Health	3
HSC	4104	Health Aspects of Stress Management	3
HSC	5135	Health Guidance	3
HSC	5176	Nutrition and Lifestyle Counseling	3
HSC	5552	Communicable and Degenerative Diseases	3
HSC	6666	Health Education and Interactive Technology	3
HSC	6667	Social Marketing in Health Education	3
MAN	5116	Management of Diversity	3
PET	3351/L	Exercise Physiology/Lab	4
PET	4310/L	Mechanics of Human Motion/Lab	4
PET	4361	Sport Nutrition and Weight Control	3

PET	5553	Advanced Exercise Testing & Prescription	3
PET	6355C	Advanced Exercise Physiology	3

PSYCHO-SOCIAL SPECIALIZATION

HLP	6535	Research Procedures	3
HLP	6595	Research Seminar	3
HSC	5037	Historical Foundations of Health Education	3
HSC	5506	Advanced Epidemiology	3
HSC	5716	Planning, Implementing & Evaluating of Health Programs	3

Choose 24 sh including at least three courses at the 6000 level with no more than two courses at the 3000/4000 level:

CLP	4314	Health Psychology	3
EAB	4704	Introduction to Behavior Modification	3
EAB	5705	Advanced Behavior Modification	3
EAB	5738	Behavioral Medicine	3
HLP	6922	Field Experience	3
HLP	6940	Course offered 1-3 sh per semester Internship	3-6
HLP	6971	Course offered 3-6 sh per semester Thesis	6
HSA	6521	Course offered 1-6 sh per semester Critical Analysis of Health	3
HSC	5135	Health Guidance	3
HSC	5552	Communicable and Degenerative Diseases	3
HSC	6206	Community Health Delivery Systems	3
HSC	6666	Health Education and Interactive Technology	3
HSC	6667	Social Marketing in Health Education	3
PCO	4310	Intervention in Addictions	3
PCO	6216	Theories of Individual Counseling	3
PCO	6278	Multicultural Counseling	3
PSB	4731	Psychobiology of Sexual Behavior	3

COMPUTER SCIENCE

Degree: Master of Science (M.S.)
Department: Computer Science
Building 4, Room 428
(850) 474-2542
http://www.cs.uwf.edu/
computerscience@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/computerscience/fac_staff/index.cfm

The M.S. in Computer Science offers three graduate specializations: Computer Science (CS), Database Systems (DB), and Software Engineering (SE).

Numerous local and regional companies and governmental agencies employ computer science students in cooperative education programs (co-op).

The department annually awards several scholarships, fellowships, and out-of-state tuition waivers to new and returning students. The department also has limited opportunities for teaching/research assistantships for new and returning students. Contact the department chairperson for information.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Quantitative, Verbal, and Analytical Writing sections for Computer Science/Software Engineering specialization or Graduate Record Examination (GRE) Quantitative and Analytical Writing sections for Computer Science/Computer Science specialization
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA
- Undergraduate degree major
- The applicant's motivation for pursuit of a Master of Science in Administration degree, extent of related work experience in the field, and future goals related to the attainment of a Master of Science in Administration degree described in a letter of intent written by the applicant.
- Indication of the applicant's ability to succeed in a graduate program as reflected in three letters of recommendation.

COMPUTER SCIENCE SPECIALIZATION

Students entering the Computer Science specialization normally have an undergraduate degree in Computer Science but may come from another scientific discipline. A graduate of this specialization is a software and hardware specialist with a deep understanding of the nature of algorithms in terms of expression, development, resource usage, and limitations. Students are prepared to develop software at any level of abstraction, from machine code to distributed processes and for a career as a programmer or advanced software developer and may consider continuing on to doctoral studies.

CDA	6415	Advanced Computer Systems	4
COP	6025	Advanced Programming Languages	4
6000 level advisor approved elective			3
5000/6000 level advisor approved electives			15

Choose one:

CIS	6971	Thesis Course offered as 1-6 sh per semester	6
COT	6931	Computer Science Project (normally 3 sh in two consecutive semesters)	6

DATABASE SYSTEMS SPECIALIZATION

Students entering the Database Systems specialization may have an undergraduate degree in CS or CIS but may also come from another discipline. A graduate of this specialization is a database specialist, prepared to plan, configure, implement and maintain large database systems. He/she will have significant programming as well as database programming skills, and may also be familiar with a specific problem domain, for example, developing and working with medical databases, biological databases, chemical databases, etc. He/she will also be able to identify and utilize tools to be able to work with the vast amounts of information provided by large data groups. Graduates of this specialization may consider continuing on to doctoral studies.

COP	5725	Database Systems	3
CAP	5771	Data Mining	3
COP	5775	Database Administration	3
COP	6727	Advanced Database Systems	3
CEN	6016	SE Process	4
CEN	6095	SE Practice and Tools	4
5000/6000 level, advisor approved electives			6

Choose one:

CIS	6971	Thesis Course offered 1-6 sh per semester	6
COP	6931	Computer Science Project Normally 3 sh in consecutive semesters	6

SOFTWARE ENGINEERING SPECIALIZATION

Students entering the Software Engineering specialization may have an undergraduate degree in CS or CIS but may also come from another discipline. A graduate of this specialization is a system specialist, prepared perform various activities within a software life-cycle such as requirements analysis, design, implementation, testing, maintenance, project management, process improvement, quality assurance, etc. in support of the development of high-quality software systems that meet client needs. He/she may also be deeply familiar with a specific problem domain (e.g. medical software, chemistry, data acquisition systems, computer games) and with software development issues associated with that domain. Graduates are also prepared to continue on to doctoral studies.

Representative electives for Software Engineering students include courses regarding Software Specifications, Software Design, Software Testing and Verification, Capability Maturity Model Integration (CMMI) in Software Engineering, Data Mining, and Database Administration.

CEN	6016	Software Engineering Process	4
CEN	6095	Software Engineering Practice and Tools	4
6000 level advisor approved elective			3
5000/6000 level advisor approved electives			15

Choose one:

CIS	6971	Thesis Course offered 1-6 sh per semester	6
COT	6931	Computer Science Project Normally 3 sh in consecutive semesters	6

CRIMINAL JUSTICE

Degree: Master of Science (M.S.)
Department: Justice Studies
Building 85, Room 160
(850) 474-2236
http://uwf.edu/justice/
College: Professional Studies

Faculty: http://uwf.edu/justice/fac&staff/index.cfm

The M.S. in Criminal Justice (MSCJ) has two tracks: a coursework track and an area research paper track. Each track requires a minimum of 33 sh, including 24 sh of criminal justice coursework. The coursework track requires 15 sh of required coursework plus an additional 9 sh (minimum) of criminal justice electives and 9 sh of criminal justice or non-criminal justice electives. The area research paper track requires 15 sh of required coursework plus an additional 9 sh of criminal justice electives, a three-credit hour paper completed in consultation with a faculty advisor, and 6 sh additional in either criminal justice or non-criminal justice electives.

The program also offers three optional specializations that students can choose from: Social Work, Public Administration, and Education. Specializations are completed using the 9 sh of non-criminal justice electives. The specializations allow the students in the program to more specifically tailor their degree to their academic and career interests.

The purpose of the program is to prepare students for careers in federal, state, county, and local criminal justice agencies, including management and administration; careers in public or private criminal justice research and analysis; teaching positions at community and state colleges; and/or continued education at the doctoral level.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Academic preparation as demonstrated by quality and relevance of undergraduate degree major
- Submission of a personal statement written by the applicant, which outlines his/her future career goals in criminal justice and how the degree will help them to achieve the goals. Additional contents of the statement include the applicant's academic preparation, work history, volunteer experience, activities, and honors or awards received.
- Submission of three letters or recommendation from individuals familiar with the applicant's ability to succeed in a graduate program. At least two of the letters should be from former professors.

DEGREE REQUIREMENTS

Major Courses (33 sh)

Criminal Justice Required Core (15 sh)

CCJ	5006	Criminal Justice Administration	3
CCJ	5008	Criminal Justice Theory	3
CCJ	6061	Criminological Theory	3
CCJ	6704	Research Methodology	3
CCJ	6705	Analysis of Quantitative & Qualitative Data	3

Tracks (18 sh)

Students must choose one of the following tracks. Contact department for current listing of approved electives.

Coursework Track (18 sh)

CCJ Electives	9
Unrestricted Electives	9

Area Research Paper Track (18 sh)

CCJ	6910	Criminal Justice Area Paper	3
CCJ Electives			9
Unrestricted Electives			6

CURRICULUM AND INSTRUCTION

Degree: Master of Education (M.Ed.)
Division: School of Education
dted@uwf.edu
850-474-2893
College: Professional Studies
http://uwf.edu/education/

Faculty: http://uwf.edu/education/faculty/index.cfm

Although students earning the M.Ed. in Curriculum and Instruction may complete courses in more than one specialization, only one degree will be awarded. Students may choose from four specializations: Elementary Education Comprehensive, Middle Level Education Comprehensive, Primary Education Comprehensive, and Secondary Education Comprehensive. For each of the above specializations, students will choose a cognate area in conjunction with an advisor. Possible cognate areas are listed below.

The School of Education offers four cognates for certified teachers: Applied Behavior Analysis Cognate, Career and Technical Cognate, ESOL Cognate, and Reading Endorsement Cognate. Course requirements for each cognate are listed below.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

Agency/Community Preparation:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 460
  - Miller Analogies Test (MAT) composite score of at least 413
- Submission of letter of intent that includes the applicant's background, short and long-term goals, contributions he/she would like to make to their field of study, and strengths he/she will bring to the program
- Submission of contact information for two professional references
- Submit Disposition Self Evaluation form

Advanced Teacher Specialization:

- Hold a professional teaching certificate
- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 460
  - Miller Analogies Test (MAT) composite score of at least 413
- Submission of letter of intent that includes the applicant's background, short and long-term goals, contributions he/she would like to make to their field of study, and strengths he/she will bring to the program
- Submission of contact information for two professional references
- Submit Disposition Self Evaluation form

Students must possess professional certification to be eligible for admission into one of these specializations. Students who possess a B.A. or B.S., but not professional certification, should contact Teacher Ready at TeacherReady.org for information.

DEGREE REQUIREMENTS

In addition to general University requirements, students seeking the M.Ed. in Curriculum and Instruction must meet the requirements listed below:

- Degree specializations must include at least 30 semester hours of approved course work.
- At least one-half of the credit hours included in the degree must be taken in the specialization area.
- At least one-half of the credit hours included in the degree must be courses numbered 6000 or above.

ELEMENTARY EDUCATION COMPREHENSIVE SPECIALIZATION

This NCATE approved Comprehensive Specialization in Elementary Education is a non-initial teacher certification program. This specialization is designed to develop master teachers who will be prepared for the instructional and leadership roles in elementary education.

It should be noted that students will select a faculty mentor before completing EDG 5366. This faculty mentor will provide career advice, advice about the selection of elective courses related to the student's area of interest, and direction and advisement to the students concerning professional issues.

Students must also complete a cognate program of study of at least 15 sh. Before graduating, students will be required to complete an action research project.

Required Core (3 sh)

EDF	6691	Issues in Teacher Education: A Bio-Psycho-Social Understanding	3

Divisional Core (9 sh)

EDE	6206	Integrated Curriculum & Instruction/Elementary Education	3
EDE	6521	Practical Applications and Issues in Assessment and Classroom Management: Elementary Education	3
EEX	6051	Exceptionalities	3

Educational Investigative Sequence (9 sh)

EDE	6482	Research Practicum	3
EDE	6911	Action Research	3
EDG	5366	Investigative Strategies & Empirical Foundations in Learning & Development (a Faculty Mentor must be selected before completing EDG 5366)	3

Cognate Course (15+ sh)
Course Plan must be approved by the student's faculty mentor and chairperson before initiating Cognate Courses.

MIDDLE LEVEL EDUCATION COMPREHENSIVE SPECIALIZATION

The NCATE approved Comprehensive Specialization in Middle Level Education is a non-initial teacher certification program. This specialization is designed to develop master teachers who will be prepared for the instructional and leadership roles in Middle Level education.

Students in this Master's degree specialization have 21 sh of required core courses as shown below.

It should be noted that students will select a faculty mentor before completing EDG 5366. This faculty mentor will provide career advice, advice about the selection of elective courses related to the student's area of interest, and directions and advisement to the student concerning professional issues.

Students must also complete a cognate program of study of at least 15 sh. Before graduating, students will be required to complete an action research project.

Required Core (3 sh)
EDF 6691 Issues in Teacher Education: A Bio-Psycho-Social Understanding 3

Divisional Core (9 sh)
EDM 6235 Integrated Curriculum and Instruction/Middle Level Education 3
EDM 6411 Practical Applications and Issues in Assessment and Classroom Management/ Middle Level Education..... 3
EEX 6051 Exceptionalities..... 3

Educational Investigative Sequence (9 sh)
EDG 5366 Investigative Strategies and Empirical Foundations in Learning and Development 3
(a faculty mentor must be selected before completing EDG 5366)
EDM 6911 Action Research 3
(Course offered 1-6 sh per semester)
EDM 6912 Research Practicum 3

Cognate (15 sh)
Course plan must be approved by faculty mentor and chairperson before initiating cognate courses. Selected courses will be an elective cognate for potential cohort groups and alternative certification students.

PRIMARY EDUCATION COMPREHENSIVE SPECIALIZATION

The Comprehensive Specialization in Primary Education is an NCATE accredited program. This specialization is designed to develop master teachers who will be prepared for the instructional and leadership roles in primary education. With careful selection of courses, students may qualify for the Pre-kindergarten Disability Endorsement Program and/or Infant Toddler Developmental Specialist Credential.

It should be noted that students will select a faculty mentor before completing EDG 5366. This faculty mentor will provide career advice, advice about the selection of elective courses related to the student's area of interest, and directions and advisement to the student concerning professional issues.

Students must also complete a cognate program of study of at least 15 semester hours. Before graduating, students will be required to complete an action research project.

Required Core (3 sh)
EDF 6691 Issues in Teacher Education: A Bio Psycho-Social Understanding.....3

Divisional Core (9 sh)
EEC 6263 Integrated Curriculum Development and Instruction/Early Childhood Education.....3
EEC 6305 Practical Applications and Issues in Assessment and Classroom Management: Primary Education.....3
EEX 6051 Exceptionalities 3

Educational Investigative Sequence (9 sh)
EDG 5366 Investigative Strategies and Empirical Foundations in Learning and Development.....3
(a faculty mentor must be selected before completing EDG 5366)
Advisor approved action research course.....3
Advisor approved research practicum course.....3

Cognate Courses (15+ sh)
Course plan must be approved by faculty mentor and chairperson before initiating cognate courses.

SECONDARY EDUCATION COMPREHENSIVE SPECIALIZATION

The Comprehensive Specialization in Secondary Education is an NCATE accredited program. This specialization is designed to develop master teachers who will be prepared for the instructional and leadership roles in Secondary Education.

It should be noted that students will select a faculty mentor before completing EDG 5366. This faculty mentor will provide career advice, advice about the selection of elective courses related to the student's area of interest, and directions and advisement to the student concerning professional issues.

Students must also complete a cognate program of study of at least 15 semester hours. Before graduating, students will be required to complete an action research project.

Required Core (3 sh)
EDF 6691 Issues in Teacher Education: A Bio-Psycho-Social Understanding 3

Divisional Core (9 sh)
EEX 6051 Exceptionalities 3

ESE	6217	Integrated Curriculum and Instruction/Secondary Education	3
ESE	6343	Practical Applications and Issues in Assessment and Classroom Management: Secondary Education	3

Educational Investigative Sequence (9 sh)

EDG	5366	Investigative Strategies & Empirical Foundations in Learning & Development (a Faculty Mentor must be selected before completing EDG 5366)	3
ESE	6421	Research Practicum	3
ESE	6426	Action Research	3

Course offered 1-6 sh per semester

Cognate (15+ sh)

Course Plan must be approved by Faculty Mentor & Chair before initiating Cognate Courses.

APPLIED BEHAVIORAL ANALYSIS COGNATE

Cognate (18 sh)

EDF	6943	Supervised Experience in Single Case Design	3
EDF	7437	Measurement and Single Case Design	3
EDF	7944	Advanced Single Case Design in Applied Settings	3

Advisor-approved electives in the following areas:
Foundations of Applied Behavior Analysis in Education
Behavioral Assessments, Interventions, and Outcomes in Education Positive Behavioral Change and System Support in Educational Settings 9

CAREER AND TECHNICAL COGNATE

Cognate (15 sh)

Student's course plan must be approved by faculty mentor and chairperson before initiating cognate courses.

EVT	5175	Curriculum and Staff Development for Career and Technical Education Programs	3
EVT	6664	School Involvement and Community Relations	3
		Advisor approved electives	9

ESOL COGNATE

The Comprehensive English to Speakers of Other Languages (ESOL) Specialization in an NCATE accredited program. Students completing the 15 sh of ESOL course work will have satisfied the educational course requirements for ESOL Endorsement and will have developed the competencies and skills necessary for the instruction of Limited English Proficient (LEP) students in accordance with the requirements set forth in the ESOL Consent Decree for instructional personnel who teach LEP students.

Cognate (15 sh)

TSL	5085	ESOL Principles & Practices	3
TSL	5145	ESOL Curriculum and Materials Development	3
TSL	5250	Applied Linguistics	3
TSL	5440	Testing and Evaluation	3
TSL	5525	Cross Cultural Communication and Understanding	3

READING ENDORSEMENT COGNATE

The Comprehensive Reading Endorsement Specialization is a DOE approved and NCATE accredited program. Students completing the fifteen hours of Reading course work will have satisfied the educational course requirements for Reading Endorsement and will have developed the competencies and skills necessary for instruction in this field.

Cognate (15 sh)

RED	5047	Florida Online Reading Professional Development	3
RED	5515	Classroom Reading Assessments	3
RED	6240	Differentiating Instruction	3
RED	6940	Reading Practicum	3
RED	------	Any Graduate Reading Elective	3

EDUCATIONAL LEADERSHIP

Degrees: Master of Education
Department: Professional and Community Leadership
Building 77, Room 143
(850) 474-2251
http://uwf.edu/education/
copsgrad@uwf.edu
College: Professional Studies

The Department of Professional and Community Leadership coordinates the various specializations in the Master of Education in Educational Leadership Program.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA or undergraduate last 60 semester hour GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Academic preparation
- Department review

DEGREE REQUIREMENTS

In addition to general University requirements, students seeking the M.Ed. in Educational Leadership must meet the requirements listed below.

A. Be admitted to the program;

B. Submit an approved degree plan which includes 30-36 semester hours;

C. Complete degree requirements compliant with the time to degree policy; and

D. Be recommended for graduation by the Department of Professional and Community Leadership.

E. The Florida Department of Education requires that all students graduating with a graduate degree in Educational Leadership must pass the Florida Educational Leadership Examination (FELE) as a condition of completing their degree and receiving certification for school administration.

FOUNDATIONAL PROFICIENCIES

Foundational Proficiencies (0-6 Hours)

Met the ESOL/ELL requirement of sixty (60) hours of ESOL district inservice points or three (3) credit hours in a survey course. This can be satisfied by completing TSL5085 - ESOL Principles and Practices

EDUCATIONAL LEADERSHIP CERTIFICATION SPECIALIZATION

The Educational Leadership Certification Specialization, approved by the Florida Council on Educational Management, is designed for students who wish to prepare for administrative and supervisory positions such as principal, assistant principal, district supervisor, in-service director, curriculum developer, or dean in public and private elementary and secondary schools.

The specialization covers the ten Florida Principal Leadership Standards and associated competencies and seeks to prepare students for the Florida Educational Leadership Exam (FELE).

Major Requirements (33 sh)

EDA	5191	Leadership in Education-School Improvement Theory & Practice	3
EDA	6063	Introduction to Educational Leadership	3
EDA	6222	Administration of School Personnel	3
EDA	6232	Law & Education	3
EDA	6240	Introduction to School Finance	3
EDA	6503	The Principalship	3
EME	6317	Instructional Technology for Educational Leaders	3
EDF	6460	Foundations of Measurement	3
EDG	5250	Principles of Curriculum Development	3
EDG	6285	Data Driven Decisions Using Standardized Student Achievement Data	3
Elective (with adviser approval)			3

EDUCATION & TRAINING MANAGEMENT SPECIALIZATION (ETMS)

The 36 semester hour specialization is designed for military officers and others interested in working in training in the military, business, and industry. It is offered through an inter-institutional agreement with George Mason University, George Washington University, University of Memphis, Old Dominion University, San Diego State University, and the University of Rhode Island. Interested individuals should contact the Department of Professional and Community Leadership or the educational officer at their base for the competency areas and designated courses offered through UWF.

Students must complete either an action research project, thesis, or take a comprehensive exam and additional course work to reach 36 hours of credit.

Students and advisors must select courses with care to ensure that (1) prerequisite requirements are met and (2) a minimum of 15 sh at the 6000-level or above are completed.

No more than 49% of the program requirements for the degree may be taken in traditional business subjects.

Students not seeking the Navy's ETMS certification should contact their advisor if other electives are desired.

Choose one course in each of the following ten areas (30 sh)

Basic Management Principles
Choose one:

EME	6426	HPT Interventions	3
GEB	5875	MBA Foundations: Management Skills and Applications	1.5
PAD	5107	Modern Public Organizational Theory	3
PAD	5434	Leadership…	3
PAD	6053	Public Administration Professional	3

Education and Training Organization/Operation
Choose one:

EDA	5191	Leadership in Education: School Improvement Theory and Practice	3
EME	6356	Performance Analysis for HPT Environments	3
EME	6409	Distance Learning Implementation	3
EME	6427	Implementing HPT Interventions	3
EME	6601	Needs Assessment and Evaluation in Instructional Technology Environments	3
GEB	5870	MBA Foundations: e-Business Systems	1.5

Planning, Programming, Statistical, and Budgeting Systems
Choose one:

EME	6628	Contract Administration: Large Scale Instructional Technology Systems	3
PAD	6227	Public Budgeting	3

Principles and Applications of Instructional Systems Development
Choose one:

EDG	5250	Principles of Curriculum Development	3
EDG	5332	Principles of Instructional Design and Product Development	3
EME	5355	Instructional Design for HPT	1.5
EME	6415	Designing Instructional Courseware	3

Personnel/Manpower Management
Choose one:

EDA	5191	Leadership in Education: School Improvement Theory and Practice	3
EDA	6222	Administration of School Personnel	3
MAN	6156	Management and Organizational Behavior	3
PAD	6417	Human Resources Management for Public Service…….	3

Education/Training Psychology
Choose one:

EDF	6218	Psychological Foundations for Education: Learning and Instruction	3
EME	6356	Performance Analysis for HPT Environments	1.5
EME	6936	Seminar in HPT Issues: Human-Computer Interaction	1.5

Education/Training Research and Development Processes, Policies, and Procedures
Choose one:

EDF	6481	Educational Research	3
EME	6428	Evaluating HPT Interventions	3
PAD	6701	Quantitative Applications in Public Administration	3
PAD	6706	Public Administration Research Methods	3

or choose both:

EME	6357	Tools for HPT Evaluation	1.5
EME	6358	Evaluation Models for MSA Professionals	1.5

Application of Computer and Web-Based Technology to Education
Choose one:

EME	6316C	Instructional Management and Technology	3
EME	6414C	Web-based Instructional Tools for Educators…..	3
EME	6415	Designing Instructional Courseware	3
EME	6458	Distance Learning Policy and Planning	3

Contract Administration
Choose one:

PAD	5605	Administrative Law	3
PAD	6275	Political Economy of Public Administration	3

Existing and Conceptual Systems
Choose one:

EDA	6061	Educational Organization and Administration	3
EDG	6335	Advanced Instructional Design and Product Development	3
EME	6408	Integrated Technology Learning Environments	3
EME	6428	Evaluating HPT Interventions	3

Thesis, or Action Research, or Additional Course Work & Comprehensive Exam (6 sh)

Thesis in area of concentration	6
Action Research in area of concentration	6
Additional Courses AND Comprehensive Examination	6

ETMS - INSTRUCTIONAL TECHNOLOGY SUBSPECIALTY

Students from PreK-12, community colleges, business and industry, and the military interested in the application of instructional technology for education and training can select the Instructional Technology emphasis within the ETMS program. The option emphasizes emerging technology applications such as web-based instruction, multimedia design, and distance learning with a strong focus on instructional systems design, planning, and change.

ETMS Professional Core (12 sh)

EDF	6218	Psychological Foundations for Education: Learning & Instruction	3
EDF	6404	Educational Statistics I	3
EDF	6481	Educational Research	3
EDF	6602	Trends & Issues in Education: Social, Multicultural, Historical & Philosophical Analysis	3

Specialization Courses (24 sh)
Instructional Technology Courses (12 sh)

EDG	5332	Principles of Instructional Design & Product Development	3
EME	6316C	Instructional Management & Technology	3
EME	6408	Integrated Technology Learning Environments	3
EME	6607	Instructional Technology Planning & Change	3

Course offered 1-5 sh per semester

Production Courses (9 sh)

EME 6414C Web-Based Instructional Tools for Educators 3
EME 6458 Distance Learning Policy & Planning 3
Advisor approved production course..... 3

Telecommunications Course (3 sh)

EME 6409 Distance Learning Implementation..... 3

Technology Showcase (0 sh)

During the last semester of enrollment, students will participate in a technology showcase scheduled by the department chairperson.

ETMS - HUMAN PERFORMANCE TECHNOLOGY SUBSPECIALTY

Organizations have recognized that the key to their success lies in their ability to set a mission and implement it in the most cost-effective means available. If a unit within the organization is not operating at the level required to complete the mission, a strategy for meeting the performance needs must be identified. Human Performance Consultants are increasingly called upon to analyze and recommend solutions to performance problems. They recommend a wide range of solutions including training, changing employee incentive systems, redesigning the work environment, or implementing new technology, for example. Human Performance Technology (HPT) is implemented in many types of organizations, including commercial enterprises, governmental agencies, and the military. In the HPT specialization, students develop proficiency in resolving performance problems in military, business and industry, and educational systems.

ETMS Professional Core (12 sh)

Same as ETMS/IT

Specialization Courses (18 sh)

EDG 5332 Principles of Instructional Design & Product Development..... 3
EME 6408 Integrated Technology Learning Environments..... 3
EME 6426 HPT Interventions..... 3
EME 6427 Implementing HPT Interventions..... 3
EME 6429 Human Performance Improvement 3
EME 6628 Contract Administration: Large Scale Instructional Technology Systems 3

Electives (6 sh)

Choose from the following courses:
EME 6428 Evaluating HPT Interventions..... 3
EME 6601 Needs Assessment and Evaluation in Instructional Technology Environments 3
Additional Advisor-Approved Electives

Final Project (0 sh)

Complete a Final Project, approved by the program advisor, which encompasses theories and applications of HPT.

ENGLISH

Degree: Master of Arts (M.A.)
Department: English and Foreign Languages
Building 50, Room 211
(850) 474-2923
http://uwf.edu/english/
English@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/english/facstaff/

The M.A. in English is a program of advanced study of English language and literature.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 500 and Analytical Writing score of at least a 4.5
  - Miller Analogies Test (MAT) scaled score of at least 413
- Acceptable undergraduate English GPA
- Submission of two-page statement of purpose
- Submission of a writing sample (2,500 words of literary analysis for Literature or 2,500 words of fiction/non-fiction prose or 10 poems for Creative Writing)
- Submission of three letters of recommendation from instructors
- 20 hours upper division undergraduate coursework in English

All students applying for graduate admission will be considered for scholarship, fellowship, and assistantship opportunities. Students who meet other requirements, but lack some of the required undergraduate preparation, may be granted provisional admission to the M.A. program. All students admitted provisionally must satisfactorily complete specific requirements stipulated by the departmental graduate committee before full admission.

In addition to General University Requirements, students seeking the M.A. in English must meet the requirements listed below.

DEGREE REQUIREMENTS

The M.A. in English requires a minimum of 33 sh of course work, 15 sh of which must be in courses at the 6000 level. No more than 3 sh at the 4000 level may be approved as part of the program if they are annotated for graduate credit and are assigned to one of the blocks below. After they have completed 24 sh of graduate level work, all M.A. candidates are required to make a scholarly or creative presentation to their peers and the faculty and to submit a Master's thesis. At the time of admission, students will indicate their choice of a program specializing either in literature or in creative writing.

Topics courses with different areas of emphasis may be repeated for a maximum of 9 semester hours of credit with the permission of the student's advisor.

Before graduation, students must satisfactorily complete required course work, finish a thesis, and demonstrate reading competency in one foreign language.

This competency may be demonstrated by one of the following:

- Earning two credits of a single foreign language in high school or one credit in high school and the second semester of the same foreign language at an accredited postsecondary institution.
- Completion of two semesters (8-10 semester hours) of a single foreign language at a postsecondary institution with a grade of "C" or higher.
- Earning a satisfactory score on a standardized test of reading competency in the chosen language. These tests include, but are not limited to, the following:
  1. CLEP subject matter examinations.
  2. MAPS-Latin examination published by the College Entrance Examination Board.
  3. Proficiency examination at UWF.

Credit or demonstrated proficiency in American Sign Language does not fulfill this foreign language requirement. Foreign language credits cannot be used to fulfill M.A. degree requirements.

LITERATURE SPECIALIZATION

Graduate English Core (33 sh)

ENG	5009	Introduction to Advanced Literary Study (ENG 5009 must be taken concurrently with or prior to ENG 6018)	3
ENG	6018	History of Literary Theory	3
ENG	6019	Topics in Literary Theory	3
ENG	6971	Thesis (Course offered 1-6 sh per semester)	3

Block I

ENL	6297	Topics in British Literature to the Romantics	3

Block II

ENL	6298	Topics in British Literature from the Romantics to Present	3

Block III

AML	6455	Topics in American Literature	3

Block IV

Choose one:

CRW	6130	Workshop in Fiction Writing	3
CRW	6236	Workshop in Creative Non-Fiction Writing	3
CRW	6331	Workshop in Poetry Writing	3
CRW	6806	Workshop in Teaching Creative Writing	3
CRW	6934	Special Topics in Creative Writing	3
LIT	5018	Topics in Fiction	3
LIT	5037	Topics in Poetry	3
LIT	5047	Topics in Drama	3
LIT	5105	Topics in World Literature	3
LIT	5397	Topics in Non-Fiction	3

Electives
5000/6000 level English electives 9

CREATIVE WRITING SPECIALIZATION

Graduate English Core (33 sh)
In addition to the 12 sh core directly below, students must choose 9 sh from three of the four blocks below.

ENG	5009	Introduction to Advanced Literary Study (ENG 5009 must be taken concurrently with or prior to ENG 6018.)	3
ENG	6018	History of Literary Theory	3
ENG	6019	Topics in Literary Theory	3
ENG	6971	Thesis (Course offered 1-6 sh per semester)	3

Block I
ENL	6297	Topics in British Literature to the Romantics	3

Block II
ENL	6298	Topics in British Literature from the Romantics to Present	3

Block III
AML	6455	Topics in American Literature	3

Block IV
LIT	5018	Topics in Fiction	3
LIT	5037	Topics in Poetry	3
LIT	5047	Topics in Drama	3
LIT	5105	Topics in World Literature	3
LIT	5397	Topics in Non-Fiction	3

Creative Writing Specialization (12 sh)

Choose four:

CRW	6130	Workshop in Fiction Writing	3
CRW	6236	Workshop in Creative Non-Fiction Writing	3
CRW	6331	Workshop in Poetry Writing	3
CRW	6806	Workshop in Teaching Creative Writing	3
CRW	6934	Special Topics in Creative Writing	3

ENVIRONMENTAL SCIENCE

Degree: Master of Science (M.S.)
Certificate: Geographic Information Systems
Department: Environmental Studies
Building 13, Room 206
(850) 474-2746
http://uwf.edu/environmental/
environmental@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/environmental/facstaff/

The M.S. in Environmental Science provides advanced research and educational opportunities in the earth (geo) and environmental sciences. Departmental areas of concentration include coastal science, contaminant hydrogeology, geographic information science, hydrogeology, Quaternary geology, and soils science. The program includes both thesis and non-thesis tracks. The non-thesis track provides a foundation for employment in the private and public sectors of the environmental fields. In addition, the thesis track prepares students for advanced study leading to the doctoral degree. Contact the department for information regarding the Graduate Certificate in Geographic Information Systems (GIS).

In addition to general University requirements, students seeking the M.S. in Environmental Science must meet the requirements listed below.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Graduate Record Examination (GRE) Verbal score of at least 450 and Quantitative score of at least 550
- Submission of a formal letter of interest, background, and professional goals
- Submission of three letters of recommendation by individuals in professionally relevant fields (waived for graduates of the UWF Department of Environmental Studies)
- Submission of current curriculum vita (CV)/résumé
- Completion of the Foundational Proficiencies as a condition of admission to the program

FOUNDATIONAL PROFICIENCIES

Foundational Proficiencies (19-23 sh)

- A college-level course in chemistry
- Two upper-level science courses in the geo-, earth, or environmental sciences
- Two upper-level techniques courses, e.g., GIS, aerial photo interpretation, remote sensing, field methods, analytical chemistry, instrumental analysis, etc.
- An upper-level course in statistics or quantitative
- Methods

Students without the equivalents of any of the above courses will be advised to enroll in a suite of appropriate foundational courses prior to being considered for admittance to the M.S. program. Students having some of the foundational proficiencies may be admitted to the M.S. program with the understanding that the missing courses be taken during the first year of graduate study.
Of the foundational proficiencies, only statistics (GEO 5165 or BIO 5176) may be taken for graduate credit and be included in the graduate program of study.

DEGREE REQUIREMENTS

Students accepted into the M.S. program should select, ideally by the end of their first semester, their graduate advisor and graduate committee members. At least two committee members must be Environmental Studies faculty. Students also need to select the thesis or non-thesis track following consultation with their graduate advisor and committee. Detailed graduate guidelines will be provided to the students by the department.

Environmental Studies Core (12 sh)

EVR 6930 Special Topics in Environmental Sciences.....3
GEO 6118 Research Design.....3
GEO 6936 Graduate Seminar.....3

Choose one:
EVS 6196C Sampling and Analysis in Environmental Sciences.....3
GIS 6110 Advanced Topics in Geographic Information Science.....3

Tracks (18-24 sh)

Choose one option:

Thesis Track (18 sh)

The thesis track entails 30 sh, of which 15 sh must be at the 6000 level and may include up to 6 sh of thesis. The remaining hours must be at the 5000 level or higher.

EVS 6971 Thesis..... 1-6
(Course offered 1-6 sh per semester)
*Advisor-approved graduate course work..... 12-17

Non-Thesis track (24 sh)

The non-thesis track entails 36 sh, of which 15 must be at the 6000 level and may include up to 3 sh of internship. The remaining hours must be at the 5000 level or higher.
As many as three courses may be from outside the department, including two from outside the University. The detailed program of study will be determined by the graduate advisor in consultation with the student and the student's graduate committee.

Advisor-approved graduate course work 21
(15 sh of these must be at the 6000 level)

Choose 3 sh:
EVS 6940 Internship..... 1-3
(Course offered 1-3 sh per semester)
GEO 6905 Directed Study..... 1-3
(Course offered 1-3 sh per semester)

EXCEPTIONAL STUDENT EDUCATION

Degrees: Master of Arts (M.A.)
Division: Teacher Education
Building 85, Room 125
(850) 474-2893
http://uwf.edu/education/
dted@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/education/faculty/index.cfm

The M.A. in Exceptional Student Education offers a Comprehensive specialization. There is a critical shortage of certified teachers, administrators, related professionals, and specialists in many areas of exceptional student education.

Exceptional Student Education continues to be a critical shortage area and teacher education students may be eligible for the Critical Teacher Shortage Loan Forgiveness Program and/or the Critical Teacher Shortage Tuition Reimbursement Program.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

Agency/Community Preparation:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 460
  - Miller Analogies Test (MAT) composite score of at least 413
- Submission of letter of intent that includes the applicant's background, short and long-term goals, contributions he/she would like to make to their field of study, and strengths he/she will bring to the program
- Submission of contact information for two professional references
- Submit Disposition Self Evaluation form

Advanced Teacher Specialization:

- Hold a professional teaching certificate
- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 460
  - Miller Analogies Test (MAT) composite score of at least 413
- Submission of letter of intent that includes the applicant's background, short and long-term goals, contributions he/she would like to make to their field of study, and strengths he/she will bring to the program
- Submission of contact information for two professional references
- Submit Disposition Self Evaluation form

EXCEPTIONAL STUDENT EDUCATION COMPREHENSIVE SPECIALIZATION

The comprehensive Master's degree program in Exceptional Student Education is an NCATE accredited program. Students may use the course work completed, however, to apply for initial teacher certification. This program is designed to develop master teachers who will be prepared for the instructional and leadership roles in special education.

No more than 6 semester hours of credit in workshop courses may be applied toward the Master's degree.

Students in this Master's degree program have 21 semester hours of required core courses as shown below. It should be noted that students will select a faculty mentor before completing EDG 5366. This faculty mentor will provide career advice, provide advice about the selection of elective courses related to the student's area of interest, and provide directions and advisement to the student concerning professional issues.

Students must also complete a cognate program of study of at least 15 sh. The cognate area options are the following:

- For those teachers who are currently employed and are in an Alternative Certification Program approved by their school district, the cognate area will consist of 15 sh of course work that is approved by the student's school district and is designed to meet the requirements for Alternative Certification. Additionally, students will be required to take a one semester hour elective course.
- For those teachers who are entering with initial teacher certification, the cognate area will consist of a program of study developed collaboratively between the student and the faculty mentor and approved by the Chair of the Division of Teacher Education. Course work may be designed to allow for additional certification or to develop a depth or breadth of knowledge in an area of inquiry.
- For those students who do not possess teacher certification, the cognate area will consist of the same 15 sh of course work required of those students in the Alternative Certification program. Additionally, students will develop with their faculty mentor an experiential course component consisting of practica and possibly additional course work designed to provide the professional and instructional skills necessary to become an effective teacher.

Before graduating, students will be required to complete an action research project in cooperation with a faculty mentor.

Required Core (3 sh)

EDF	6691	Issues in Education: A Bio-Psycho-Social Understanding	3

Divisional Core (9 sh)

EEX	5085	Integrating Curriculum and Instruction	3
EEX	6051	Exceptionalities	3
EEX	6222	Practical Applications and Issues in Assessment and Classroom Management: Special Education	3

Educational Investigative Sequence (9 sh)

EDG	5366	Investigative Strategies & Empirical Foundations in Learning & Development ..... 3 (a Faculty Mentor must be selected before completing EDG 5366)
EEX	6340	Action Research 3
EEX	6945	Research Practicum in Special Education.... 3

Cognate Courses (15 sh minimum)

Students must have a course plan approved by a faculty mentor and chair before initiating cognate courses. Selected courses will be an elective cognate for potential cohort groups and alternative certification students.

HEALTH, LEISURE, AND EXERCISE SCIENCE

Degree: Master of Science (M.S.)
Department: Health, Leisure, and Exercise Science
Building 72, Room 241
(850) 474-2592
http://uwf.edu/hles/
hles@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/hles/faculty/index.cfm

The M.S. in Health, Leisure, and Exercise Science offers specializations in Exercise Science (39 sh) and Physical Education (33 sh). The Exercise Science Specialization emphasizes administration of adult fitness and graduate research, while the Physical Education Specialization emphasizes further study in teacher education.

In addition to general University requirements, students seeking the M.S. in Health, Leisure, and Exercise Science must meet the requirements listed below.

EXERCISE SCIENCE SPECIALIZATION

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate Cumulative GPA
- Undergraduate Senior Year/Major GPA
- Academic Preparation as demonstrated by undergraduate degree major
- Submission of letter of intent describing reasons for applying to this program and associated career goals
- Submission of two personal references
- Certifications (ACSM, NSCA, ACE, AFA)
- Work Experience as reflected in a résumé

Exercise Science Core (18 sh)

HLP	6535	Research Procedures	3
HLP	6595	Research Seminar	3
PET	5052	Motor Learning	3
PET	5389C	Physiological Basis of Strength Development	3
PET	5553	Advanced Exercise Testing & Prescription	3
PET	6355C	Advanced Exercise Physiology	3

Thesis or Internship (21 sh)

Students will choose one of the following tracks.

Thesis Track (21 sh)

HLP	6971	Thesis Course offered 1-6 sh per semester	6
Elective courses chosen from list below			12

Choose one:

STA	5166	Special Topics in Statistics	3
STA	5206	Analysis of Variance	3

Internship Track (21 sh)

HLP	6940	Internship Course offered 3-6 sh per semester	6
Elective courses chosen from list below			15

Pre-approved Elective Courses

Students may choose a maximum of two courses from 4000 level.

HLP	6922	Field Experience (Course offered 1-3 sh per semester)	3
HSC	5552	Communicable and Degenerative Diseases	3
PEP	5118	Aging and Physical Performance	3
PET	4310/L	Mechanics of Human Motion/Lab	4
PET	4361	Sport Nutrition and Weight Control	3
PET	4691	Exercise Testing for Special Populations	3
PET	5216	Success in Sports	3
PET	5626	Rehabilitation of Athletic Injuries	3
PET	5635/L	Therapeutic Modalities in Sports Medicine/Lab	4
PET	6074	Successful Aging: Physiological Aspects	3
PET	6905	Directed Study (Course offered 1-3 sh per semester)	3
PSY	4832	Sport and Exercise Psychology	3

PHYSICAL EDUCATION SPECIALIZATION

This specialization is a two-year, 33 sh program of study with all coursework specifically focusing on improving the performance and knowledge base of the physical educator. A limited number of students will be accepted for the specialization, and they will be expected to complete the specialization with their peer cohort. Students will attend an intensive (8-9 hour-per-day) 3-week session during the first and second summers of enrollment. During the regular academic year, most students will be actively engaged in the teaching profession implementing, testing, and expanding their knowledge of physical education instruction, while maintaining enrollment and interaction with faculty at UWF. Other students may complete their coursework on campus while engaging in research and assisting with the undergraduate program. After the two instructional years are completed, the students will return and defend their program (research, curriculum changes, etc.) to their peer cohort. The specialization is designed not only to accommodate practicing teachers, but also to facilitate the growth of their knowledge base and skills through the active use of the information and instruction they receive in the specialization.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate Cumulative GPA
- Undergraduate Senior Year/Major GPA
- Academic Preparation as demonstrated by undergraduate degree major
- Submission of letter of intent describing reasons for applying to this program and associated career goals
- Submission of two personal references
- Evidence of appropriate teacher certifications
- Work Experience as reflected in a résumé

Physical Education (33 sh)

HLP	6535	Research Procedures	3
PET	5701	Systematic Observation in Sport and Physical Education	3
PET	5702	Advanced Management of Physical Education Programs	3
PET	5708	Instructional Design in Physical Education	3
PET	5709	Advanced Curriculum in Physical Education	3
PET	5805	Analysis and Supervision in Physical Education	3
PET	6010	Professional Issues in Physical Education	3
PET	6706	Analysis of Research on Teaching in Physical Education	3
PET	6707	Research on Physical Education/Teacher Education….	3

Choose one:

HLP	6940	Internship	6
HLP	6971	Thesis	6

HISTORY

Degree: Master of Arts (M.A.)
Certificate: Historic Preservation Studies
Department: History
Building 50, Room 106
(850) 474-2680
http://uwf.edu/history/
history@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/history/faculty/index.cfm

The M.A. in History offers three specializations. The first is the traditional history degree with the option of completing either a thesis or research paper. The Public History Specialization trains students in the various aspects of public (applied) history and requires completion of an internship. The Military History Specialization is geared towards military officers and students desiring to teach.

Students in the Master's program may also earn a certificate in Historic Preservation. The certificate program in historic preservation requires the completion of 18 sh at the Master's level. It is geared towards individuals interested in acquiring a general focus in the field of historic preservation and current practitioners in the field who wish to add a historic preservation certification to their academic or professional credentials. Contact the department for information concerning the certificate.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 500 and Analytical Writing score of at least 3.5
  - Miller Analogies Test (MAT) scaled score of at least 415
- Submission of letter of intent
- Submission of writing sample (undergraduate research paper preferred)
- Oral interview, if deemed appropriate
- Minimum of 15 semester hours of upper division history courses

The department reserves the right to a personal interview to determine an applicant's potential for graduate study. The department reserves the right to admit conditionally an applicant who meets most but not all of the above requirements. This is done upon the recommendation of the Graduate Committee and under the conditions set by that Committee and the Chair of the Department. A student admitted conditionally must complete all requirements of that admission, including the required "Foundational Proficiencies," before starting the graduate program.

PROGRAM REQUIREMENTS

The full-time graduate student should expect to spend a minimum of three semesters at UWF to earn a degree.

With the approval of the Department Chair and the Graduate Committee, a maximum of 6 sh of history graduate course work can be transferred from another institution or be taken while in a non-degree status at UWF. Such courses must be completed with a grade of "B" or better.

A student must earn at least a "B-" in each graduate course taken at UWF to receive credit for that course and an overall 3.00 CGPA for all courses in the program. A student must apply for advancement to candidacy upon completion of 15 sh. The thesis, research paper, or internship advisor will then be appointed as the academic advisor. A student must complete graduate work within five years. A student may petition for extension of the five-year rule if circumstances do not permit completion of the requirement. A student must take at least 18 sh of graduate course work at the 6000 level.

COMPREHENSIVE EXAMINATIONS

All Master's students in History and Public History must pass a departmental written comprehensive examination, which will be offered during the fall and spring semesters. Contact the department for additional information and requirements.

HISTORY SPECIALIZATION

The History Specialization is a traditional degree that equips students to pursue further graduate study or to begin an enriching career. Students may focus their course work in American or European history but acquire a broad knowledge and marketable skills that prepare them for a Ph.D. program in history or for a career teaching at the middle school, high school, or community-college level or working in governmental and non-governmental agencies, institutional planning, libraries, museums, archives, non-profits, politics or publishing.

FOUNDATIONAL PROFICIENCIES

An applicant must have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work will be required to correct the deficiency before taking graduate level courses.

COURSE REQUIREMENTS

Plan A

Plan A requires 33 sh of graduate history course work, including the thesis. At least 15 sh must be in the major field (United States or European) and 6 sh in thesis. The student must write the thesis under the direction of a History faculty member and defend it in an oral examination before a thesis committee.

Plan B

Plan B is designed for the student who prefers a wide range of studies in history. A student must take 33 sh of graduate history course work distributed in the following manner: 9 sh in

European history, 9 sh in United States history, 12 sh of electives in history, and 3 sh of research seminar (HIS 6911). In the research seminar, the student must write a substantial research paper under the direction of a History faculty member.

The student may count one 3 sh course taken outside of history toward degree requirements with the prior approval of their academic advisor and the History faculty, who will make the final decision.

MILITARY HISTORY SPECIALIZATION

The Military Specialization is offered through on-site instruction and delivery via video conferencing technology at the Pensacola and Emerald Coast campuses. Geared toward military officers desiring a Master's degree for promotion, it also prepares students to pursue further graduate study or for a career teaching at the middle school, high school, or community-college level or working in governmental and non-governmental agencies, institutional planning, libraries, museums, archives, non-profits, politics or publishing.

FOUNDATIONAL PROFICIENCIES

An applicant is expected to have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work may be required by the Graduate Committee to correct the deficiency before taking graduate level courses. The Graduate Committee may identify other relevant courses or work experience that provides the required foundational proficiencies.

COURSE REQUIREMENTS

Plan A

Plan A requires 33 sh of graduate history course work, including 6 hours of thesis credit (HIS 6971). The student must write the thesis under the direction of a History faculty member and defend it in an oral examination before a thesis committee.

Plan B

Plan B requires 33 sh of graduate history course work, including 3 sh of research seminar (HIS 6911). In the research seminar, the student must write a substantial research paper under the direction of a History faculty member. The student may count 6 sh of approved coursework outside of history toward degree requirements with the prior approval of his/her academic advisor and the History faculty, who will make the final decision.

Military History Specialization (33 sh)

Plan A students must complete 6 hours of HIS6971 - Thesis credit. Plan B students must complete 3 hours of HIS6911 - Master's Research credit.

Choose three or four:

AMH	6169	Seminar: Jacksonian America	3
AMH	6292	Seminar: 20th Century America	3
AMH	6439	Seminar: The Southern Frontier	3
AMH	6447	Spanish Borderlands	3
EUH	5246	The First World War	3
EUH	5287	The Second World War	3
EUH	5467	Nazi Germany	3
EUH	5517	Tudor and Stuart England	3
EUH	5539	England and America from the Colonial Period to the Present	3
EUH	6247	Seminar: Europe between The World Wars (1918-1939)	3
EUH	6338	Seminar: East-Central Europe and the Balkans since 1815	3

Choose one or two:

INR	5138	Homeland Security	3
INR	5330	National Security Policy	3
INR	5365	Intelligence	3

PUBLIC HISTORY SPECIALIZATION

The Public History Specialization within the UWF History Department trains students in the various aspects of public (applied) history, the study of history outside the academic setting. Students learn about the numerous ways in which public historians think and operate as professionals.

Beginning with an introductory seminar, students develop both traditional and public history skills and techniques. Students work in two or more areas of Public History Specialization, including community history, museology and museum studies, policy history, environmental history, and/or media history. Coursework is offered through both the History Department and other University departments and programs.

To facilitate the learning of various skills and research techniques, students participate in a 6 sh internship with an appropriate agency or organization. As the thesis equivalent, students complete and defend an extensive report on their internship experience. The combination of traditional and applied skills with the practical application of public history in the field provide students with the resources to secure employment following graduation.

FOUNDATIONAL PROFICIENCIES

An applicant must have a minimum 3.0 in 15 sh of upper-level history courses. Students accepted without the 15 sh of prerequisite work will be required to correct the deficiency before taking graduate level courses.

COURSE REQUIREMENTS

Public History Core (15 sh)

HIS	5059	Graduate Methods (an elective may be substituted if the student has completed HIS 3002)	3
HIS	6055	Public History Methodology	3
Approved 5/6000 level European History elective			3
Approved 5/6000 level American History elective			3
Approved 5/6000 level Latin American/African/Asian/Ethnic elective			3

Internship (6 sh)

HIS	6056	Graduate History Practicum Course offered 1-6 sh per semester	6

Applied History/Non-History Electives (15 sh)

Choose three or four:

AMH	5578	African-American Community History	3
AMH	5636	Environmental History	3
AMH	6429	Seminar: Local History	3
EUH	6615	Seminar: Gender & Community in the Middle Ages	3
HIS	5077	Oral and Community History	3
HIS	5087	Advanced Museology	3
HIS	6083	Historic and Heritage Preservation Seminar……	3
HIS	6406	Seminar/Urban History	3
Approved 5000/6000 Level Applied History Elective			3

Choose one or two:

ANG	5137	Nautical Archaeology Seminar	3
ANG	5172	Historical Archaeology Seminar	3
ANG	6196	Policies, Practices, and Archaeology in Historic Preservation	3
ANG	6704	Historic Preservation Law Seminar	3
ARH	5045	Outline of American Architecture	3
ARH	5046	Outline of European Architecture	3
ARH	5836	Museum/Gallery Studies	3
COM	5121	Organizational Communication	3
EVR	5413	Environmental Aspects of Urban Growth	3
EVR	6930	Special Topics in Environmental Sciences	3
FIL	5038C	History of Motion Pictures I	3
MAN	5204	Modern Organization Theory	3
MMC	5267	Communication Technologies	3
PAD	5107	Modern Public Organization Theory	3
PAD	6227	Public Budgeting	3
PAD	6305	Public Policy Analysis	3
PAD	6425	Public Service Conflict Management & Resolution	3
PAD	6443	The Media and Public Administration	3
Approved 5000/6000 level outside elective			3

INSTRUCTIONAL TECHNOLOGY

Degree: Master of Education (M.Ed.)
Certificate: Human Performance Technology
Department: Engineering and Computer Technology
Building 77, Room 131
(850) 474-2484
http://cops.uwf.edu/dect
ect@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/education/faculty/index.cfm

The M.Ed. in Instructional Technology trains professionals who provide critical assistance for national and international education and training initiatives in the 21st century. The M.Ed. in Instructional Technology prepares education, military, and business and industry professionals to meet the challenges of complex problems from the perspective of education and training. Developing innovative solutions to organizational problems and providing for just-in-time support to employees and learners permits students to develop a variety of instructional technology-related skills. With the advent of the information explosion, industry, the military, and educational systems look for alternative and systematic strategies related to instructional technology and instructional systems in the education and training of employees and of children. Students in the M.Ed. program select courses from a minimum of two specializations in addition to the program core requirements. Graduates of the M.Ed. in Instructional Technology work in curricular, instructional, performance, or distance environments, designing, producing, and evaluating instructional materials and managing teams or technology projects.

In addition to general University requirements, students seeking the M.Ed. in Instructional Technology must meet the requirements listed below.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Undergraduate cumulative GPA or undergraduate last 60 semester hour GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Academic preparation
- Department review

DEGREE REQUIREMENTS

To be eligible for an M.Ed. degree in Instructional Technology, a student must do the following:

- Complete degree requirements compliant with the time to degree policy
- Be recommended for graduation by the Department of Engineering and Computer Technology
- During the last semester of enrollment, participate in a technology showcase scheduled by the department chairperson.

Instructional Technology Core (27-30 sh)

EDF	6218	Psychological Foundations for Education: Learning & Instruction	3
EDF	6404	Educational Statistics I	3
EDF	6481	Educational Research	3
EDG	5332	Principles of Instructional Design & Product Development	3
EME	6054	Foundations of Instructional Technology	3
EME	6316C	Instructional Management and Technology	3
EME	6414C	Web-Based Instructional Tools for Educators	3
EME	6415	Designing Instructional Courseware	3
EME	6946	Field Experiences in Instructional and Performance Technology	3-6

Areas of Emphasis (3-8 sh)

Students will select two courses in one specialization.

Curriculum and Technology (6 sh)

EME	6408	Integrated Technology Learning Environment	3
EME	6601	Needs Assessment and Evaluation in Instructional Technology Environments	3
EME	6607	Instructional Technology Planning and Change…….	3

Technology Leadership (3-6 sh)

EME	6314	Technology for Leaders	3
EME	6357	Tools for HPT Evaluation	1.5
EME	6358	Evaluation for M.S.A. Professionals	1.5
EME	6628	Contract Administration/Large Scale Instructional Technology Systems	3

Telecommunications and Distance Learning (6-8 sh)

EME	5403	Education and Training Technology Support Systems	4
EME	5457	Distance Education Technologies	3
EME	5625	Technology Tools: Site-Based Educational Networks	4
EME	6409	Distance Learning Implementation	3
EME	6458	Distance Learning Policy and Planning	3

Human Performance Technology (6 sh)

EME	6426	HPT Interventions	3
EME	6427	Implementing HPT Interventions	3
EME	6428	Evaluating HPT Interventions	3
EME	6429	Human Performance Improvement	3

Technology Electives (4-9 sh)

Students will choose sufficient electives to complete 36 sh in the program from courses listed below or those not taken as part of the chosen specialization.

EME	6626	Emerging and Innovative Technology System…….	3

EME 6936 Seminar in HPT Issues: Human-Computer Interaction… 1.5
5000/6000 level elective approved by advisor 3

Technology Showcase

Students participate in an internship or field experience as a capstone experience (EME 6946). The final project report serves as the technology showcase. If EME 6946 is chosen, the final project report will serve as the showcase.

MATHEMATICS

Degrees: Master of Science (M.S.)
Department: Mathematics and Statistics
Building 4, Room 323
(850) 474-2276
http://uwf.edu/mathstat/
mathstat@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/mathstat/facstaff/

The M.S. in Mathematics offers students who hold a bachelor's in mathematics, statistics, or related fields an opportunity to broaden their knowledge in several fields of mathematics, statistics, and their applications. Students may concentrate on statistics which emphasizes the use, adoption, and development of statistical methods and computer technology in the analysis of data from problems in all fields of study. Students may concentrate on mathematics which will prepare them well to seek careers in teaching in community colleges and high schools; working in science, business, industry, or government; or pursuing doctoral studies in mathematics and statistics.

ADMISSIONS REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:
If an applicant has a B.S. in mathematics or a related field:

- Minimum Graduate Record Examination (GRE) Verbal score of at least 420 and Quantitative score of at least 580.

If an applicant does not meet the above requirements, they may be considered for conditional admission. Please contact the department for more information.

If a student has a graduate degree in any of the sciences, no GRE is required.

- The student will be admitted if the student has all required undergraduate proficiency courses.
- The student will be admitted conditionally subject to completing the required undergraduate proficiency courses.

With the approval from the department, a maximum of six credit hours may be transferred to the program.

In addition to general University requirements, students seeking the M.S. in Mathematics must meet the requirements listed below.

FOUNDATIONAL PROFICIENCIES

MAP	2302	Differential Equations	3
MAS	3105	Linear Algebra	3
STA	3162C	Applied Statistics	4

Choose one:

MAA	4212	Advanced Topics in Multi-Variable Calculus	3
MAD	4401	Numerical Analysis	3

DEGREE REQUIREMENTS

The M.S. is offered with or without a thesis. In addition to general University requirements, students seeking the Master's degree are required to maintain at least a 3.0 GPA in all University work undertaken in connection with the degree.

Each student must complete a minimum of 30 sh of approved course work. For the degree with thesis, 6 sh of 6000-level credit will be awarded for the thesis. For the degree without thesis, a proseminar (1 sh) is required in which the candidate will investigate and make an oral presentation of topics in mathematics or statistics. All candidates will take and pass comprehensive examinations covering the graduate core requirements.

Core Requirements (9 sh)

MAS	5107	Matrix Theory	3
STA	5326	Mathematical Statistics II	3

Tracks (7 sh)

Students will choose one track.

Mathematics Track

MAT	6930	Proseminar in Mathematics	1
MAT	6971	Thesis	6
		Course offered 1-6 sh per semester	

Statistics Track

STA	6930	Proseminar in Statistics	1
STA	6971	Thesis	6
		Course offered 1-6 sh per semester	

Other Requirements (18-24 sh)

Students completing a thesis will take an additional 18 sh of math/stat graduate courses approved by the department while non-thesis students will take an additional 24 sh of math/stat graduate courses approved by the department. A minimum of 15 sh must be at the 6000 level. Only two approved courses below the 5000 level may be included in the graduate program.

NURSING

Degree: Master of Science in Nursing (M.S.N.)
Department: Nursing
Building 8
(850) 494-3802
http://uwf.edu/nursing/
nursing@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/nursing/facstaff/

The M.S.N. is an innovative and flexible online program that prepares the professional nurse for leadership, advanced nursing roles, and doctoral studies (including a cooperative doctorate with University of Florida). The M.S.N. consists of 39-40.5 sh of coursework. Students may select from the two areas of specialization. Nursing Education (39 sh) prepares students for employment in an academic or community/hospital/agency setting, while Nursing Administration (40.5 sh) prepares students for employment in an administrative/management position in the health care industry.

ADMISSIONS REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Earned Bachelor of Science in Nursing degree from an NLN or CCNE accredited nursing program
- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal, Quantitative, and Analytical Writing scores
  - Miller Analogies Test (MAT)
- Cumulative undergraduate GPA
- Possess a current unencumbered Registered Nurse license to practice nursing
- Submission of a letter of intent addressing how an MSN will help you attain your professional and personal goals
- Submission of current curriculum vita (CV)/résumé
- Submission of three nursing professional/academic letters of recommendation

If an applicant is unable to meet the above criteria, they may petition the Nursing Department Graduate Admissions Committee and request a special review.

Upon admission the M.S.N. student will receive information concerning current UWF Nursing Department requirements for enrollment. These include, but are not limited to student health physical examination and immunizations; Level 2 criminal background check; drug screen; and proof of personal health insurance.

DEGREE REQUIREMENTS

Students wishing to earn a M.S.N. and a M.S.A. in Nursing Administration must complete the core courses in both the M.S.N. and the M.S.A. before completing the M.S.N. Nursing Administration Specialty courses. Both degrees will be conferred upon completion of all requirements. Students interested in completing only the M.S.A. in Nursing Administration must have earned a B.S.N. to qualify for admission into the program and must complete the M.S.A. core courses and the M.S.A. Nursing Administration courses listed above.

ADMINISTRATION SPECIALIZATION

M.S.N. Core (18 sh)

HSA	5115	Health Care Policy and Administration	3
HSC	5655	Theoretical Foundations of Health Care Ethics	3
NGR	6700	Healthcare Theories, Trends and Issues in Nursing and Society	3
NGR	6740	Advanced Nursing Practice Role	3
NGR	6800	Nursing Research I	3
STA	5176	Biostatistics	3

Administration Specialization (22.5 sh)

GEB	5871	MBA Foundations: Managerial Economics	1.5
HSA	5161	Marketing for Nursing Administrators	3
HSA	5436	Health Economics	3
NGR	6722	Nursing Management of Human & Financial Resources	3
NGR	6723	Nursing Leadership Development	3
NGR	6724	Health Care Planning & Management in Nursing….	3
NGR	6833	Nursing Research II: Nursing Administration	3
NGR	6833L	Nursing Administration Practicum	3

EDUCATION SPECIALIZATION

M.S.N. Core (18 sh)

HSA	5115	Health Care Policy and Administration	3
HSC	5655	Theoretical Foundations of Health Care Ethics	3
NGR	6700	Healthcare Theories, Trends and Issues in Nursing and Society	3
NGR	6740	Advanced Nursing Practice Role	3
NGR	6800	Nursing Research I	3
STA	5176	Biostatistics	3

Education Specialization (21 sh)

EDG	5332	Principles of Instructional Design and Product Development	3
NGR	6636	Health Promotion and Primary Prevention in Nursing	3
NGR	6701	Nursing Educational Leadership	3
NGR	6713	Nursing Curriculum, Course Design and Management	3
NGR	6756	Advanced Clinical Nursing	3
NGR	6834	Nursing Research II: Nursing Education	3
NGR	6834L	Nursing Education Practicum	3

POLITICAL SCIENCE

Degree: Master of Arts (M.A.)
Department: Government
Building 50, Room 120
(850) 474-2929
http://uwf.edu/govt/
govt@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/govt/adjunctfaculty.cfm

The M.A. in Political Science is designed for students interested in international relations, comparative politics, American government, and public policy. Additionally, the program is affiliated with a consortium formed by the U.S. Navy and several civilian graduate schools. Students may be allowed to transfer a maximum of 15 sh from one member of the consortium to another.

The program consists of 33 sh plus successful completion of a comprehensive examination or a thesis. All new students should be advised initially by the department chairperson. After their first semester, students should select their advisor from the program faculty who will chair the examinations committee or direct the thesis.

ADMISSIONS REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Graduate Record Examination (GRE) Verbal and Quantitative score
- Undergraduate cumulative GPA
- Undergraduate degree major (preference is given to undergraduate Political Science majors)
- Submission of a writing sample in the form of a letter of intent of no more than 500 words in which the applicant specifies the reasons for choosing political science as an intended major, applying to UWF to pursue a graduate degree, and goals after graduation.
- Submission of a résumé

POLITICAL SCIENCE SPECIALIZATION

Political Science Core (21 sh)

CPO	6006	Seminar in Comparative Politics	3
INR	6007	Seminar in International Relations	3
PAD	6275	Political Economy of Public Administration	3
POS	6006	The Study of Politics	3
POS	6045	American Politics	3
POS	6704	Political Science Research Methods	3
POT	5602	Masters of Political Thought	3

Electives (6-12 sh)

Thesis students take 6 sh of electives while non-thesis students take 12 sh of electives. With the approval of their advisors, students may take 6 sh in disciplines outside Political Science. Students may enroll in an undergraduate course for graduate credit to learn the fundamentals of a discipline or in a directed readings course to explore in greater depth an area of interest in Political Science.

Thesis Option (0-6 sh)

Students may choose to complete a Thesis (POS 6971 - 6 sh) in lieu of completing 6 sh of electives.

PUBLIC ADMINISTRATION SPECIALIZATION

Political Science Core (21 sh)

CPO	6006	Seminar in Comparative Politics	3
INR	6007	Seminar in International Relations	3
PAD	6275	Political Economy of Public Administration	3
POS	6006	The Study of Politics	3
POS	6045	American Politics	3
POS	6704	Political Science Research Methods	3
POT	5602	Masters of Political Thought	3

Public Administration Specialization (12 sh)

PAD	6053	The Public Administration Professional	3
PAD	6227	Public Budgeting	3
PAD elective with the permission of the chair			3
Chair approved PAD elective or other elective			3

Advisor Approved Comprehensive Examination (0 sh)

The program is capped with a comprehensive examination, both written and oral. The purpose of the examination is to help the student synthesize knowledge from different courses into a coherent whole. The examination will be administered by a three member committee of department faculty, one of whom will chair or supervise the student's efforts in preparing for the examination.

SECURITY AND DIPLOMACY SPECIALIZATION

Political Science Core (21 sh)

CPO	6006	Seminar in Comparative Politics	3
INR	6007	Seminar in International Relations	3
PAD	6275	Political Economy of Public Administration	3
POS	6006	The Study of Politics	3
POS	6045	American Politics	3
POS	6704	Political Science Research Methods	3
POT	5602	Masters of Political Thought	3

Security and Diplomacy Specialization (12 sh)

INR	4403	International Law	3
INR	5330	National Security Policy	3

Choose two:

INR	3102	American Foreign Policy	3
INR	5138	Homeland Security	3
INR	5365	Intelligence	3

Advisor Approved Comprehensive Examination (0 sh)

The program is capped with a comprehensive examination, both written and oral. The purpose of the examination is to help the student synthesize knowledge from different courses into a coherent whole. The examination will be administered by a three member committee of department faculty, one of whom will chair or supervise the student's efforts in preparing for the examination.

PSYCHOLOGY

Degree: Master of Arts (M.A.)
Certificate: Health Psychology
Department: Psychology
Building 41, Room 250
(850) 474-2363
http://uwf.edu/psychology
psych@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/psychology/facstaff/

The M.A. in Psychology provides students with the study of human and animal behavior. Graduate training in Psychology entails in-depth exploration and understanding of the core foundations of the biological bases of behavior, the social bases of behavior, the acquired bases of behavior, and the individual bases of behavior. As a scientific discipline, the study of psychology also requires competence in research methodology, statistics, and critical thinking. Psychology is also an applied discipline, with applications in clinical health and mental health settings, business settings, and educational settings. Students completing a Master's degree in Psychology will be prepared to pursue a wide range of careers at the master's level or to pursue advanced training at the doctoral level. There are several areas of concentration in the master's program: General, Counseling, Counseling-Licensed Mental Health Counselor, and Industrial-Organizational. Students seeking to complete the M.A. degree in Psychology must meet the general University requirements, the Psychology Department graduate core requirements, and the specialized requirements of the student's chosen area of concentration. The student also has the option of fulfilling requirements for a certificate in Health Psychology, in addition to the requirements for the master's degree.

In addition to general University requirements, students seeking the M.A. in Psychology must meet the requirements listed below.

ADMISSION REQUIREMENTS

Applications for admission for summer and fall semesters are due on the preceding February 1. This application is for the Department of Psychology only, and supersedes all other published deadlines. Files completed after the published deadline may not be reviewed in time to enroll in the desired semester.

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Graduate Record Examination (GRE) Verbal and Quantitative score
- Undergraduate cumulative GPA
- Psychology undergraduate GPA
- Grades received in undergraduate major coursework
- Submission of writing sample
- Submission of three letters of reference
- Program prerequisites
- Field Experience or Skill sets
- Oral Interview, if applying to Counseling specialization
- A completed departmental supplementary data form

Applicants can assume that their files are incomplete until they receive a letter from the department indicating that files are complete.

The following are the minimum admission requirements:

- A bachelor's degree in psychology (preferably) or a bachelor's degree with the completion of at least general/introductory psychology, experimental psychology, three semester hours of statistics, and a psychology course in the area of intended master's emphasis. Any of these requirements may be waived if the student demonstrates competence in the area. Although a student may be admitted with deficiencies, the requirements must be fulfilled before the student is admitted to any 6000-level course. In addition, certain graduate courses have specific undergraduate prerequisites.
- If admitted, students are required to have EXP 4404 or its equivalent to complete the Acquired Bases of Behavior core in the M.A. program.

NON-DEGREE STUDENTS

The department may be petitioned to apply up to 12 sh earned at UWF as a non-degree student toward the M.A. degree, if the student is later admitted into the graduate program.

DEGREE REQUIREMENTS

Graduate students should develop their degree plans with their advisors during the first semester of graduate work. All students must complete University requirements and a planned degree program of at least 42 sh (45 sh for the Counseling Psychology Specialization; 60 sh for the Licensed Mental Health Counselor Specialization) with at least a 3.00 GPA and with these stipulations:

- Only 6 sh may be at the 3000- or 4000-level. Usually these hours may NOT be in psychology, especially prerequisites to the graduate program.
- Only with approval of the advisor and department chairperson may courses outside the Psychology Department (except required courses) be taken toward the total sh requirement.
- All students must complete PSY 6217; either STA 5206 or STA 5207 or STA 5166; and at least one course from each of the four core areas.

Psychology Graduate Core (12 sh)

Students must complete one course in each area.

Biological Bases of Behavior Core

EXP	5208	Advanced Sensation & Perception	3
PSB	5035	Cognitive Neuroscience	3

Social Bases of Behavior Core

PCO	6278	Multicultural Counseling	3
SOP	6069	Advanced Social Psychology	3
SOP	6669	Advanced Organizational Psychology	3

Acquired Bases of Behavior Core

EAB	5705	Advanced Behavior Modification	3
EXP	6506	Advanced Cognitive Psychology	3

Individual Bases of Behavior Core

DEP	5055	Developmental Psychology	3
PCO	6216	Theories of Individual Counseling (Counseling and Licensed Mental Health Counseing Specialization only)	3

Toward the end of graduate work, the student must have an integrative experience consisting of 6 sh of PSY 6917, PSY 6948 (PCO 6948 for counseling students), or PSY 6971. For each semester that the student is working on the supervised research, thesis, or internship, the student must register for at least 1 sh of thesis or internship credit. A maximum of 6 sh of supervised research, thesis, or internship credit may be counted toward the total sh degree requirement (45 sh for Counseling Psychology Specialization or 60 sh for the Licensed Mental Health Counselor Specialization). Students doing an internship are required to submit a portfolio and paper as described in the Psychology Graduate Student Handbook. Upon completion of the thesis or internship, the student must present an oral defense to a Master's committee of at least two psychology faculty members.

The Supervised Research integrative experience is the Terminal Independent Academic Research Activity (TIARA). This can be accomplished by students completing 6 sh of PSY 6917, Supervised Research. This option allows students to design and complete an independent empirical study under the supervision of a two member faculty supervisory committee with the committee head being a tenure track faculty member from The Department of Psychology. The terminal experience for students who choose this option will consist of three elements:

- Completing an empirical study and having an initial defense before the TIARA committee
- Making an oral presentation to the students and faculty of the Department and invited guests
- Preparing a manuscript intended for publication in a refereed academic journal

With the advisor's approval, a student may apply a maximum of 6 sh of graduate work taken at another University toward the degree. With the approval of the department chairperson, a maximum of 10 sh of transfer credit may be accepted toward the degree.

All Master's work must have been taken within seven years preceding completion of the degree requirements or the student may be required to demonstrate currency, e.g., to pass an examination covering the expired course work.

GENERAL PSYCHOLOGY CONCENTRATION

The General Psychology Concentration is designed for those students who wish to do graduate work with a focus on research and its application in areas of psychology such as biological psychology, cognitive neuroscience, cognitive psychology, developmental psychology, experimental psychology, health psychology, or human factors psychology. Graduates from the General Psychology Concentration typically matriculate into doctoral programs at major universities or find employment in community college teaching, research centers, public agencies, or industry. The 42 sh curriculum provides depth in the basic content areas of psychology (cognitive neuroscience, cognitive, developmental, social), the research tools of psychology (research design, statistics), and in-depth study in the student's field of interest through electives, independent study, supervised research, and the thesis. With a faculty advisor, each student develops an individualized program. Courses used to meet departmental core requirements may not be used to meet general psychology specialization requirements. Examples of areas of possible student specialization include behavior modification, biological psychology, cognitive science, developmental psychology, health psychology, human factors, sensation and perception, and social psychology.

Concentration (9+ sh)

Students must choose at least 9 sh.

CBH	5255	Comparative Behavior and Cognition	3
DEP	5055	Developmental Psychology	3
EAB	5705	Advanced Behavior Modification	3
EAB	5738	Behavioral Medicine	3
EXP	5208	Advanced Sensation & Perception	3
EXP	6506	Advanced Cognitive Psychology	3
PSB	5035	Cognitive Neuroscience	3
PSB	6089	Brain & Mind: Fact & Fantasy	3
PSY	5016	Conjunctive Psychology	2
PSY	5016L	Conjunctive Psychology Lab	1.5
SOP	6069	Advanced Social Psychology	3

COUNSELING PSYCHOLOGY CONCENTRATION

The Counseling Psychology concentration is a non-licensure 45 semester hour graduate program designed primarily to prepare individuals for admission to a doctoral program in Clinical or Counseling Psychology. Students must complete the core departmental requirements, taking PCO 6216 to meet the Individual Bases of Behavior portion of the core, and the following:

Concentration (15 sh)

CLP	5166	Psychopathology	3
PCO	6204	Pre-Practicum/Techniques of Counseling and Psychotherapy	3
PCO	6206C	Ethical and Professional Issues in Counseling	3
PCO	6246	Theories of Group Counseling	3
		Graduate Elective Course	3

Application (12 sh)

PCO	6946	Practicum in Counseling	3
PCO	6948	Internship in Counseling (Course offered 1-6 sh per semester)	3
PSY	6971	Thesis (Course offered 1-6 sh per semester)	6

Students interested in seeking certification in Guidance and Counseling by the Florida Department of Education may do so by supplementing the course work described above. Students who do not hold a teaching certificate may have additional prerequisite course work. See your advisor for information on current requirements.

COUNSELING PSYCHOLOGY-LICENSED MENTAL HEALTH COUNSELOR

The Licensed Mental Health Counselor option is a 60 sh program with requirements comparable to the requirements established by the Florida state board for licensure as a Mental Health Counselor. Attainment of the degree does not entail conferral of the license, which is governed by the state licensing board. Upon graduation from the licensure option, the individual should be in a position to qualify to register with the state licensing board as an intern and to obtain the two year post-degree supervised experience required by the board for licensure. Students must complete the core departmental requirements, taking PCO 6216 to meet the Individual Bases of Behavior portion of the core, and the following:

Concentration (12 sh)

CLP	5166	Psychopathology	3
PCO	6204	Pre-Practicum/Techniques of Counseling and Psychotherapy	3
PCO	6206C	Ethical and Professional Issues in Counseling	3
PCO	6246	Theories of Group Counseling	3

Application (9 sh)

PCO	6946	Practicum in Counseling	3
PCO	6948	Internship in Counseling (Course offered 1-6 sh per semester)	6

Seven additional courses are required by the current Florida law in the areas of developmental psychology, human sexuality, vocational counseling, multicultural counseling, assessment, substance abuse, and community settings.

INDUSTRIAL-ORGANIZATIONAL PSYCHOLOGY CONCENTRATION

The 42 sh Industrial-Organizational (I/O) concentration combines traditional personnel psychology (selection, performance appraisal, test construction and validation, fair employment practices, and legal issues) with the more interpersonal emphasis of organizational psychology (motivation, job satisfaction, leadership, interpersonal communication, organizational diagnosis, and change). Students select electives that will help them gain proficiency in areas of emphasis such as Personnel Psychology, Human Factors, or Organizational Development. The curriculum meets the needs of students who plan to be employed at the master's level in organizational settings as well as those who wish to pursue a doctoral program in a related field at another University.

Concentration (11 sh)

INP	5087	Ethics in I/O Psychology	1
INP	6216	Personnel Selection & Appraisal	3
SOP	5609	Current Issues in Industrial-Organizational Psychology	1
SOP	6668	Organizational Change and Development	3

Choose one:

INP	6397	Management and Organizational Behavior	3
SOP	6669	Advanced Organizational Psychology	3

Additional (10 sh)

Students must complete at least 10 semester hours of elective courses relevant to I/O and chosen in consultation with the advisor. Recommended electives include INP 5131, INP 6255, INP 6325, INP 6944, SOP 5617, SOP 5665, SOP 6069, additional statistics, or courses in Organizational Development (OD) offered in collaboration with the Management Department.

PUBLIC HEALTH

Degree: Master of Public Health (M.P.H.)
Certificates: Environmental Health
Health Care Ethics
Infection Control
Medical Informatics
Emergency Management
Occupational
Safety and Health
School: Allied Health and Life Sciences
Building 58, Room 79
(850) 473-7226
http://uwf.edu/sahls/
sahls@uwf.edu
College: Arts and Sciences

Faculty: http://uwf.edu/sahls/facstaff/

The M.P.H. provides students with a high quality, multidisciplinary perspective on public health to prepare them to be public health professionals. The MPH degree is the most widely recognized professional credential for leadership in public health. The program core courses provide students with a background in environmental health, epidemiology, social and behavioral sciences, biostatistics, health services administration, and an internship in the public health/health care community. The required and elective courses offer students the opportunity to tailor their degree to best fit their career goals in public health. Public Health is a broad field that is open to students from diverse academic disciplines including Health Sciences, Education, Business, Social and Natural Sciences, and others. This is a totally online program. The M.P.H. is allied with several academic centers/certificate programs that broaden the educational opportunities available to students in the program, including the Center for Health Care Ethics, the Alliance for Medical Informatics, the Program in Nursing, the Program in Medical Technology, and certificates in Medical Informatics, Health Care Ethics, Critical Care Nursing, Infection Control, Environmental Health, and others. Close relationships with the state public health facilities in the region as well as with area hospitals and the military provide a strong foundation in the health care and public health communities for enhancing and broadening the internship opportunities for students in the program. Out-of-area students may arrange appropriate internship sites approved by the MPH Curriculum Committee. The UWF MPH Program is accredited by the Council on Education for Public Health.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 450 and Quantitative score of at least 550
  - Graduate Management Admissions Test (GMAT) composite score of at least 465
  - Medical College Admission Test (MCAT) score of at least 25
- Submission of two personal writing samples (e.g., written reports completed by the applicant or other representative samples of professional writing skills).
  - Students with writing deficiencies may be admitted conditionally pending successful completion of the online course ENC 3250: Professional Writing
- Possess basic computer competency
- Submission of three letters of recommendation

Applicants with insufficient training in statistics or those that have taken a statistics course more than seven years ago may be admitted conditionally pending demonstration of proficiency in statistics within the first year in the program by either:

- taking and passing STA 2023: Elements of Statistics. This option is highly advised for students with limited or no background in statistics (e.g. a student who has never taken a course in statistics or has taken a statistics course more than seven years ago). The credit earned in this course does not count toward the graduate degree.
- taking and passing online STA 5176: Biostatistics. This option is advised only for students who are confident they can successfully complete Biostatistics at the graduate level.

Applicants with insufficient training in public health or other health and biological sciences will be required to take two foundational proficiency courses (HSC5506 and PHC4100) that will NOT count toward the degree requirements. Students from the Navy and Army Medical Residency Programs entering the MPH will substitute Aerospace Medicine and Toxicology for six semester hours of electives.

Other admission criteria may apply.

Applicants with terminal degrees (PhD or EdD) or advanced professional degrees (MD, DDS, DVM, JD, DO) from accredited programs and licensed in the United States may request to waive the GRE requirement but must complete other admission requirements.

If a student is an international applicant whose native language is not English or the student is from a country in which the primary language is not English, he or she must take an acceptable English proficiency test before applying for admission. Applicants to the University of West Florida are considered international students if they are not U.S. Citizens, dual citizens, or permanent residents. All such students should refer to the current UWF Graduate Catalog for information pertaining to international applicants, including requirements for completion of, and scores on the English proficiency test. Other criteria may apply.

DEGREE REQUIREMENTS

Students must earn an average grade of "B" or better in the M.P.H. program in order to remain in good standing within the program and in order to graduate from the program. Students

must achieve no less than a grade of "C" in any course in the M.P.H.

At the end of their academic program, all students are required to take and pass a Comprehensive Examination with a grade of 70% or better in each of the five core course and five required course domains. See http://uwf.edu/sahls for additional information. All students are required to satisfactorily complete a supervised Public Health Internship (6 sh) involving field experience in a public health-related area and to submit a written report on research conducted during this capstone experience and to defend the conclusions and recommendations included in their report. The internship course requirement will be met for students with appropriate professional experience or who are currently enrolled in a medical residency program or in the final two years of medical school. No more than 49% of the program requirements for the degree may be taken in traditional business subjects.

Students qualified to enroll in graduate studies but who do not have the required documents by the application deadline date, or those who do not intend to work toward a graduate degree, may complete up to 12 hours as non-degree seeking students. The Academic Learning Plan for programmatic assessment of the MPH, which includes Student Learning Outcomes, is available at http://uwf.edu/sahls. Some exams in this program require proctoring at testing sites approved by the course instructor.

Master of Public Health Core (21 sh)

HSA	5115	Public Health Care Policy and Administration	3
PHC	5410	Social and Behavioral Sciences in Public Health	3
PHC	6000	Epidemiology for Public Health Professionals	3
PHC	6300	Survey of Environmental Problems	3
PHC	6946	Internship in Public Health	6
STA	5176	Biostatistics	3

Master of Public Health Required Courses (15 sh)

Students must choose 15 sh of coursework (including at least one 6000 level course) from the following in consultation with your academic advisor.

HSC	5185	Public Health Preparedness	3
PHC	5XX3	Scientific Basis of Public Health	3
PHC	6015	Epidemiological Study Design and Statistical Methods	3
PHC	6196	Computer Applications in Public Health	3

Choose one:

PHC	6XX0	GIS Applications in Public Health	3
PHC	6551	Disease Surveillance and Monitoring	3

Electives (6 sh)

Contact the department for a current list of approved electives.

READING

Degree: Master of Education (M.Ed.)
Division: Teacher Education
Building 85, Room 125
(850) 474-2893
http://uwf.edu/education/
dted@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/cops/faculty/index.cfm

The M.Ed. in Reading is a NCATE and Florida Department of Education approved program designed to develop specialists in teaching reading, diagnosing reading difficulties, and coordinating and supervising programs in reading (K-12 and adult programs). Students completing the specialization are eligible for Florida graduate certification in reading. Reading is a critical shortage area and teacher education students may be eligible for the Critical Teacher Shortage Loan Forgiveness Program and/or the Critical Teacher Shortage Tuition Reimbursement Program.

Based on the International Reading Association's Standards for Reading Professionals, this program integrates course work and clinical experiences to prepare graduates in the following areas:

- Foundations of reading and writing processes and instruction
- Instructional practices, approaches, methods, and curriculum materials to support reading and writing instruction
- Assessment tools and practices to plan and evaluate effective reading instruction
- Integration of foundational knowledge, use of instructional practices, approaches and methods, curriculum materials, and the appropriate use of assessments

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the applicant must meet the following minimum departmental admission requirements for regular admission:

Agency/Community Preparation:

- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 460
  - Miller Analogies Test (MAT) composite score of at least 413
- Submission of letter of intent that includes the applicant's background, short and long-term goals, contributions he/she would like to make to their field of study, and strengths he/she will bring to the program
- Submission of contact information for two professional references
- Submit Disposition Self Evaluation form

Advanced Teacher Specialization:

- Hold a professional teaching certificate
- Minimum score on one graduate admission test as follows:
  - Graduate Record Examination (GRE) Verbal score of at least 460
  - Miller Analogies Test (MAT) composite score of at least 413
- Submission of letter of intent that includes the applicant's background, short and long-term goals, contributions he/she would like to make to their field of study, and strengths he/she will bring to the program
- Submission of contact information for two professional references
- Submit Disposition Self Evaluation form

When the student does not have an undergraduate major or the equivalent in elementary education, middle school education, secondary education, or special education, prerequisite course work will be required and planned for the candidate by the student's academic advisor. When evidence indicates weakness in academic or professional skills, the candidate may be recommended for non-credit personal improvement work in these areas. Students must meet FTCE testing requirements to achieve certification.

DEGREE REQUIREMENTS

In addition to general University requirements, students seeking the M.Ed. in Curriculum and Instruction must meet the requirements listed below:

- Degree specializations must include at least 36 semester hours of approved course work
- At least one-half of the credit hours included in the degree must be courses numbered 6000 or above
- No more than 6 semester hours of credit in workshop courses may be applied toward the master's degree

Educational Foundation (6 sh)

EDF	6460	Foundations of Measurement	3
EDF	6691	Issues in Teacher Education: A Bio-Psycho-Social Understanding	3

Reading Specialization (30 sh)

LAE	5345	Teaching Pupils to be Effective Writers	3
LAE	5468	Literature for Children and Young Adults	3
RED	5515	Classroom Reading Assessments	3
RED	6060	Foundations of Middle and Secondary Literacy	3
RED	6116	Foundations of Early Literacy	3
RED	6161	Reading Across the Curriculum	3
RED	6240	Differentiating Instruction	3
RED	6546	Identifying and Preventing Reading Difficulties	3
RED	6747	Research & Trends in Reading	3
RED	6866	Practicum in the Clinical Teaching of Reading	3

SOCIAL WORK

Degree: Master of Social Work (M.S.W.)
Department: Social Work
Building 85, Room 133
(850) 474-2381
http://cops.uwf.edu/copsweb/socwork.htm
socialwork@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/cops/faculty/index.cfm

The M.S.W. prepares students for ethical, competent, independent social work practice. The program focus is Clinical/Community Practice with individuals, families, groups and communities. The M.S.W. program of study is designed to meet the course requirements of those students who wish to pursue a clinical social work license in Florida and to meet the diverse needs of the local community (.e.g., rural, small town, metropolitan and economically disadvantaged service areas).

The M.S.W. program is a 60 sh graduate level course of study to be completed within two years. The program will have a one year advanced standing option available for those students who enter the program with a B.S.W. from a CSWE accredited program within 5 years of graduation.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE) Verbal and Quantitative score
  - Miller Analogies Test (MAT)
- Undergraduate cumulative GPA
- Academic preparation as demonstrated by quality and relevance of undergraduate degree major
- Submission of a letter of intent written by the applicant
- Submission of three letters of recommendation from individuals familiar with the applicant's ability to succeed in a graduate program.
- Work experience as documented on the Social Work Supplemental Application

PROGRAM REQUIREMENTS

The foundation year is 30 semester hours. The foundation year of program includes a professional core of 24 hours, one elective (3 hours) and a field placement (3 hours). The field placement is 450 hours of agency based field work that complements the foundation year of study.

The concentration year is 30 sh. The concentration year of the program includes a professional core of 18 sh, three electives (9 sh) and two field placements (6 sh). The field placements are each 300 hours of agency field work that run consecutively beginning in fall through the end of spring semester. Students who are admitted with the advanced standing option complete this year of study.

Students must maintain a 3.00 average in their graduate coursework. They must receive at least a "B-" in each graduate course taken at UWF to receive credit for that course. Students must satisfactorily complete field placement work to receive the MSW degree. Students must complete their MSW program course work within five years of admission to the program.

DEGREE REQUIREMENTS

Foundation Curriculum (30 sh)

SOW	5105	Human Behavior in the Social Environment I	3
SOW	5106	Human Behavior in the Social Environment II	3
SOW	5218	Analysis of Social Service Policy	3
SOW	5305	Generalist Practice I	3
SOW	5324	Generalist Practice II	3
SOW	5404	Social Work Research Foundations	3
SOW	5532	Foundation Year Field Instruction and Integrative Seminar I	3
SOW	5629	Human Diversity and Social Justice	3
SOW	5757	The History, Philosophy, and Theory of Social Work Practice	3
Elective in Advanced Clinical Practice			3

Advanced Curriculum (30 sh)

SOW	6618	Clinical Practice I	3
SOW	6125	Psychopathology for Social Work	3
SOW	6344	Social Work Practice with Families in Communities	3
Research Practice Evaluation			3
Elective in Advanced Clinical Practice			3
SOW	6619	Clinical Practice II	3
SOW	6548	Advanced Seminar in Clinical Social Work Practice……	3
SOW	6536	Advanced Year Field Instruction and Integrative Seminar II	3
Electives in Advanced Clinical Practice			6

SPECIALIST DEGREES

The University of West Florida offers two programs that lead to the Specialist in Education (Ed.S.).

A description of the requirements for each specialization is provided on the following pages. Also included are points of contact for each.

CURRICULUM AND INSTRUCTION

Degree: Education Specialist (Ed.S.)
Department: Professional and Community Leadership
Building 85, Room 133
(850) 474-2768
http://uwf.edu/education/
copsgradoffice@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/education/faculty/index.cfm

The Ed.S. in Curriculum and Instruction is designed primarily for professionals who hold positions of leadership in education or who aspire to provide educational leadership. The purpose of the program is to develop and enhance the functional capability of educational leaders. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making. The degree is designed to meet the educational needs of regional place-bound, full-time employed professionals who will be selected from a wide range of educational backgrounds. These backgrounds include, but are not limited to, public school personnel, community college and university personnel, social and health related personnel, and military personnel. The Ed.S. will prepare professionals in the community to assume administrative and leadership positions.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Master's GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

FOUNDATIONAL PROFICIENCIES

EDF	6404	Educational Statistics I	3
EDF	6481	Educational Research	3

The following are additional Foundational Proficiencies for students choosing the reading option:

LAE	5468	Literature for Children and Young Adults	3
RED	5515	Classroom Reading Assessments	3
RED	6060	Foundations of Middle and Secondary Literacy	3
RED	6116	Foundations of Early Literacy	3

DEGREE REQUIREMENTS

To be eligible for the Ed.S., a student must complete all requirements listed in the Graduation and General Degree Requirements section of this catalog along with the specific course requirements listed below. Students are required to receive at least a B- or above in all course work.

Professional Core (15 sh)

EDF	6475	Qualitative Research I-Methods	3
EDF	7407	Educational Statistics II: General Linear Model	3
EDF	7685	Educational Foundations: A Philosophical & Multicultural Analysis	3
EDG	7346	Advanced Analysis of Curriculum & Instruction	3
EME	6316C	Instructional Management and Technology	3

Specialization (21 sh)

Students will work with advisors to complete the appropriate course work in one of the approved specialization options.

Students will select a track within one of the two areas of emphasis. The Curriculum and Diversity Studies Specialization is housed in the Department of Professional and Community Leadership. The Instructional Technology Specialization is housed in the Department of Instructional and Performance Technology.

Curriculum and Diversity Studies

Students must complete one of the following tracks, or choose a track from:

Curriculum Studies

Students will complete a specialization that focuses on the following areas: (1) critical, multicultural, and feminist pedagogical practices; (2) social transformation and change; (3) social and political issues in education; (4) reform and activist movements; (5) curriculum development and delivery strategies; and (6) educational and social science research and evaluation methods.

General Studies

This track is designed for students who are planning to complete an Ed.D. specialization in teacher education or science and social sciences. Before applying to the program, students are required to meet with an advisor in the respective areas.

Reading

Students will complete a specialization that focuses on the following areas: (1) knowledge of the theories of literacy processes, emergent literacy, content area literacy, literacy assessment and literacy programs; (2) knowledge of decoding and encoding, comprehension of narrative and expository texts, and oral and silent reading; (3) knowledge of literature and other print and non-print media; (4) knowledge of exceptional learners, diverse populations, and students' attitudes; and (5) knowledge of literacy program supervision and administration.

Correctional Education and At-Risk Juvenile and Adult Populations
This track is designed for students who are currently in correctional education settings or anticipate future assessments working with at-risk juvenile and adult populations or administering programs in these areas.

Instructional Technology

Performance Technology
This option emphasizes theoretical and applied perspectives for considering how individual and organizational performance can be enhanced through the systematic use of innovative instructional technologies, training, feedback systems, and incentive systems.

Distance Learning
Students learn how to design distance infrastructures, establish policy directives within organizations, support student performance, develop instructional materials, and implement a distributed system via two-way interactive video systems using the World Wide Web and CD-ROM.

EDUCATIONAL LEADERSHIP

Degree: Education Specialist
Department: Professional and Community Leadership
Building 85, Room 133
(850) 474-2768
http://uwf.edu/education/
copsgradoffice@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/education/faculty/index.cfm

The Ed.S. in Educational Leadership is designed primarily for professionals who hold positions of leadership in education or who aspire to provide educational leadership. The purpose of the program is to develop and enhance the functional capability of educational leaders. The research component is practitioner-oriented with emphasis on the utilization of research findings for decision making.

The degree is designed to meet the educational needs of regional place-bound, full-time employed professionals who will be selected from a wide range of educational backgrounds. These backgrounds include, but are not limited to, public school personnel, community college and university personnel, social welfare related personnel, and military personnel. The Ed.S. Program will prepare professionals in the community to assume administrative and leadership positions.

The Florida Department of Education requires that all students graduating with a graduate degree in Educational Leadership must pass the Florida Educational Leadership Examination (FELE) as a condition of completing their degree and receiving certification for school administration.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Master's GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

FOUNDATIONAL PROFICIENCIES

EDF 6404 Educational Statistics I 3
EDF 6481 Educational Research 3

DEGREE REQUIREMENTS

Students are required to receive at least a B- or above in all course work.

Major Courses (36-39 sh)

Professional Core (15 sh)

EDF 6475 Qualitative Research I: Method 3
EDF 7407 Educational Statistics II: General Linear Model 3
EDF 7685 Educational Foundations: A Philosophical & Multicultural Analysis 3
EDG 7346 Advanced Analysis of Curriculum & Instruction 3

Choose one:

EME 6316C Instructional Management and Technology 3
EDF 6287 Instructional Technology for Educational Leaders 3

Educational Leadership Administrative Option (21 sh)

EDA 7190 Leadership in the Professional Literature 3
EDA 7215 School and Community Relations..... 3
EDA 7217 Effective Communication Techniques 3
EDA 7423 School Reform: Research to Practice 3
EDA 7931 Seminar with High Performing Educational Leaders…….. 3
Electives (approved by program advisor and department chair)…… 6

Educational Leadership Certification Option (24 sh)

EDA 5191 Leadership in Education-School Improvement Theory & Practice.....3
EDA 6222 Administration of School Personnel 3
EDA 6232 Law and Education 3
EDA 6240 Introduction to School Finance 3
EDA 6503 The Principalship 3
EDA 6xx0 Introduction to Educational Leadership.....3
EDF 6460 Foundations of Measurement 3
EDG 6285 Data Driven Decision Using Standardized Achievement Data 3

DOCTORAL DEGREE

The University of West Florida offers several specializations in the Doctor of Education (Ed.D.) Program.

A description of each major and the requirements for each specialization are provided on the following pages. Also included is contact information.

CURRICULUM AND INSTRUCTION

Degree: Doctor of Education (Ed.D.)
Department: College of Professional Studies
Ed.D. Program Office
Building 85, Room 133
lburnette@uwf.edu
(850) 474-2768
http://uwf.edu/edd/index.cfm
copsgradoffice@uwf.edu
College: Professional Studies

Faculty: http://uwf.edu/education/faculty/index.cfm

The Ed.D. in Curriculum and Instruction is designed to meet the educational needs of regional place-bound, full-time employed professionals who will be selected from a wide range of educational backgrounds. These backgrounds include, but are not limited to, public school personnel, community college and university personnel, social and health related personnel, community civic leaders, and military personnel. The Ed.D. program prepares professionals in the community to assume administrative and leadership positions and to conduct and evaluate applied research studies that emphasize local, regional, and state educational issues and problems. To accomplish this task the research and course work is substantive and focused. Rigor of the program is maintained by recruitment and admission policies and procedures, closely monitored curriculum development, and benchmarks of progress such as written and oral exams and successful completion of a dissertation.

The Ed.D. in Curriculum and Instruction offers specializations in Administrative Studies; Curriculum and Diversity Studies; Instructional Technology; Physical Education and Health; Sciences and Social Sciences; and Teacher Education. The criteria listed below are the minimum Ed.D. program requirements. Each specialization area may have additional requirements. Contact should be made with the specialization area to determine additional requirements. In addition to general University requirements, students seeking the Ed.D. in Curriculum and Instruction must meet the requirements listed below.

ADMISSION REQUIREMENTS

In addition to the University graduate admission requirements described in the Graduate Admissions section of the catalog, the department bases decisions for regular admission on a holistic review of credentials in which the following criteria are used to assess the potential success of each applicant:

- Submission of one of the following graduate admission tests:
  - Graduate Record Examination (GRE)
  - Miller Analogies Test (MAT)
  - Graduate Management Admissions Test (GMAT)
- Master's GPA
- Submission of letter of intent describing the candidate's work experience and reasons for pursuing the degree program, including how the degree relates to career goals.
- Overall fit with the program

Departments housing the specializations may have additional requirements. Some specializations admit applicants once per year.

FOUNDATIONAL PROFICIENCIES

EDF	6404	Educational Statistics I	3
EDF	6481	Educational Research	3

DEGREE REQUIREMENTS

To be eligible for a Ed.D. degree in Curriculum and Instruction, a student must complete all requirements listed in the Graduation and General Degree Requirements section of this catalog along with the specific course requirements listed below:

Professional Core Requirements (21 sh)

EDF	6475	Qualitative Research I - Methods	3
EDF	7191	Psychological Foundations for Education: Cognition, Curriculum, and Instruction	3
EDF	7407	Educational Statistics II: General Linear Model	3
EDF	7489	Advanced Research Methods	3
EDF	7685	Educational Foundations: A Philosophical and Multicultural Analysis	3

Choose one:

EDF	7437	Measurement and SingleCase Design	3
EDF	7468	Advanced Program Development and Evaluation	3
EDF	7476	Survey Research	3
EDF	7477	Qualitative Research II – Theory	3
EDF	7478	Qualitative Research III -Analysis	3
EDF	7483	Exploratory Quantitative Data Analysis	3
EDF	8406	Educational Statistics III: Multivariate Analyses	3

Choose one:

EDF	7638	Social Change and Reform	3
EDG	7070	Managing Learning Environments	3
EDG	7224	Critical Issues in the Academic Curriculum	3
EDG	7225	Teaching Critical and Social Issues	3
EDG	7241	Social Justice and Inequities	3
EDG	7303	Analysis of Learning and Teaching Practices	3
EDG	7346	Advanced Analysis of Curriculum and Instruction	3
EDG	7930	Special Topics and Critical Issues in Teaching and Learning	3
EME	7063	Research on Emerging and Innovative Technology Systems	3

Dissertation Requirement (18 sh)

Specialization Area (24-27 sh)

ADMINISTRATIVE STUDIES SPECIALIZATION

The Administrative Studies Specialization offers the Educational Administration Option. This program focuses on educational systems (public school and non-public school), change theory, and leadership theory.

Educational Administration Option (27 sh)

Students will select 27 semester hours of required course work in this specialization. Students will also select an educational administration critical issues elective.

CURRICULUM AND DIVERSITY STUDIES SPECIALIZATION

The Curriculum and Diversity Studies Specialization offers two options: Curriculum Studies and Diversity Studies. The Curriculum Studies option targets individuals in public and private sectors who want to specialize in theory and practice of curriculum issues and development. This program is developed around general theory based curriculum issues coupled with various professional areas that meet each individual student need. The Diversity Studies option targets individuals in public and private sectors who want to specialize in theory and practice of curriculum and social issues in the area of diversity. This program prepares individuals to teach and develop training programs in diversity and multicultural studies.

Curriculum Studies Option (27 sh)

Students will select 27 semester hours of required course work in this specialization. Students will also select an education critical issues elective.

Diversity Studies Option (27 sh)

Students will select 27 semester hours of required course work in this specialization. Students will also select an education critical issues elective.

INSTRUCTIONAL TECHNOLOGY SPECIALIZATION

The Instructional Technology Specialization offers two options: Performance Technology or Distance Learning. The Performance Technology option targets individuals who want to investigate how instructional technology can be used to improve performance and learning in various educational environments. Students explore a variety of delivery systems and the influence of technology on performance and learning as they develop a framework for improving performance. The Distance Learning option targets individuals who want to develop expertise in theoretical constructs for an application of distance educational systems including: design, development, implementation, and evaluation. Students choose from a variety of courses depending upon their future goals and examine distance learning environments, web-based instruction, interactive video, multimedia, and instructional design.

Performance Technology Option (27 sh)

Students will select 27 semester hours of required course work in this specialization. Students will also select an instructional technology critical issues elective.

Distance Learning Option (27 sh)

Students will select 27 semester hours of required course work in this specialization. Students will also select an instructional technology critical issues elective.

PHYSICAL EDUCATION AND HEALTH SPECIALIZATION

This 24-27 sh specialization is for professionals in the field of health and physical education directly responsible for addressing health and physical concerns of individual students, classroom students, school-wide groups of students, school district student populations, and children and adults in the community at large. The primary focus is on school based health and physical education however the program is designed to prepare professionals to teach or administer programs at the university, college, K-12 schools, or in the community.

PET	5701	Systematic Observation and Supervision in Physical Education and Health	3
PET	6003	Advanced Theoretical Models of Health and Physical Education	3
PET	6516	Advanced Assessment and Evaluation in Health and Physical Education	3
PET	6535	Strategic Planning and Instructional Design in PE and Health	3
PET	6708	Research on Teaching Physical Education and Health	3
PET	6774	Models of Teaching in Physical Education and Health	3
Approved electives in field			6-9

SCIENCES AND SOCIAL SCIENCES SPECIALIZATION

The Sciences and Social Sciences Specialization offers two options: Mathematics and Statistics/Science/ Computer Science option or Social Science option. The Mathematics and Statistics/Science/Computer Science option targets individuals who want to become program specialists or teach at the junior/community college level in the program areas. The Social Science option targets individuals who want to specialize in specific academic discipline areas of social sciences to complement their academic training in the area of education.

Mathematics and Statistic, Science, or Computer Science Options (24 sh)

Students will select 24 semester hours of course work within Mathematics/Statistics, Science or Computer Science, or an advised combination of courses from the content area. Students will also select an educational critical issues elective.

Social Sciences Option (24 sh)

Students will select 24 semester hours of course work within the Social Sciences. Students will also select an educational critical issues elective.

TEACHER EDUCATION SPECIALIZATION

The Teacher Education Specialization area offers two options: Alternative/Special Education or Teaching and Learning. The Alternative/Special Education option targets individuals who want to work with or intend to work with populations of at-risk children and youth enrolled in public school systems in this area. The Teaching and Learning option targets individuals who want to become a leader in teaching and learning and related content areas. This program facilitates a leadership role in teaching and learning, junior/community college, and educational agencies. Alternative/Special Education Option (18 sh) Students will select 18 semester hours of required course work in this specialization. Students will also select an alternative/special education critical issues elective. Teaching and Learning Option (18 sh) Students will select 18 semester hours of required course work in this specialization. Students will also select a teaching and learning critical issues elective .

COURSE OFFERINGS

Florida statewide COURSE NUMBERING SYSTEM

Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This numbering system is used by all public postsecondary institutions in Florida and 23 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions. Students and administrators can use the online Statewide Course Numbering System (scns.fldoe.org) to obtain course descriptions and specific information about course transfer between participating Florida institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to the type of institution and discipline, field, or specialization.
The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "course equivalency profiles."

Example of Course Identifier

Prefix	Level Code (first digit)	Century Digit (second digit)	Decade Digit (third digit)	Unit Digit (fourth digit)	Lab Code
SYG	1	0	1	0	
Sociology, General	Freshman level at this institution	Entry-level General Sociology	Survey Course	Social Problems	No laboratory component in this course

GENERAL RULE FOR COURSE EQUIVALENCIES

Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions, which are listed below.

For example, a survey course in social problems is offered by 34 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 2010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

AUTHORITY FOR ACCEPTANCE OF EQUIVALENT COURSES

Section 1007.24(7), Florida Statutes, states:

> "Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students."

Exceptions to the General Rule for Equivalence

The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution.

- Courses not offered by the receiving institution
- For courses at non-regionally accredited institutions
- Courses offered prior to the established transfer date of the course in question
- Courses in the 900-999 series are not automatically transferable and must be evaluated individually, including such courses as special topics, internships, practica, study abroad, thesis, and dissertations
- College preparatory and vocational preparatory courses
- Graduate courses
- Internships, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999
- Applied courses in the performing arts (art, dance, interior design, music, and theatre) and skills courses in criminal justice are not guaranteed as transferable

COURSES AT NONREGIONALLY ACCREDITED INSTITUTIONS

The Statewide Course Numbering System makes available on its home page (scns.fldoe.org) a report entitled "Courses at Nonregionally Accredited Institutions" that contains a comprehensive listing of all nonpublic institution courses in the SCNS inventory, as well as each course's transfer level and transfer effective date. This report is updated monthly.Questions about the Statewide Course Numbering System should be directed to the Registrar's Office at the University of West Florida or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or via the Internet at scns.fldoe.org.

HOW TO FIND COURSES

Please consult the online version of the catalog (uwf.edu/catalog/crs.cfm) for specific course information.

COURSE PREFIX

The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or subcategory of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix used to identify the course.

COURSE LEVEL

Lower Division Courses have a “1” or “2” as the first digit of the course number. Upper Division Courses have a “3” or “4” as the first digit of the course number.

Graduate Courses have a “5,” “6,” “7,” or “8” as the first digit of the course number.

CLASSIFICATION OF COURSES

The University course numbering system is as follows:

1000-2999	Freshmen, sophomores, and non-degree students, unless otherwise noted.
3000-4999	Open to freshmen, sophomores, juniors, seniors, and non-degree students.
5000-5999	Open to all degree-seeking and non-degree graduate students. Juniors and seniors may register for 5000-level courses under certain conditions.
6000-7999	Restricted to students enrolled in graduate programs and other post baccalaureate students who may be admitted at the discretion of the department chairperson. Non-degree students must have permission of the specific course instructor to register for 6000-level courses.
8000-8999	Restricted to students enrolled in the doctoral program.

Permission Courses

Departments may restrict enrollment in specific courses to students in the major or other categories of students based on academic needs and requirements. These courses are noted in the online course search. Students should refer to the Navigation Guide for registration procedures.

Unassigned Course Numbers (XXX and —-)

Courses listed in degree plans with XXX as the last three digits of a course number are pending assigned course numbers within the Statewide Common Course Numbering System. Information concerning these courses must be obtained from the offering department.

HOURS

The number of credit hours follows each course listing. Directed study, internship, thesis, practicum, and some other courses are offered on a variable hours basis. For these courses, the minimum and maximum number of hours will be indicated. The number of hours will be determined in consultation with the instructor and advisor.

SEMESTER COURSE OFFERED

Please consult the academic department offering a course for information concerning semester(s) in which a particular course is normally offered. Potential course offerings are subject to change based upon student enrollment, faculty availability, program changes, etc. Students should contact their advisor when developing schedules to ensure timely completion of prerequisites and courses required for graduation.

COURSE PREREQUISITES/COREQUISITES

It is the student's responsibility to review the prerequisite and corequisite requirements included as part of the course description. Students who have not successfully completed the specific courses identified may not take the course without the instructor's permission. Departments that enforce prerequisites will cancel the registration in a course of a student who does not meet the course prerequisites. A student whose registration is cancelled will be notified via his/her UWF email account. For further information about prerequisites and corequisites, please contact the offering department and review the information found in the Registration & Records section of this *Catalog*.

990-999 COURSE NUMBERS

Courses in the 990-999 series are not identified in the University catalog and are exceptions to the general rule for course equivalencies and may not be transferable. Transfer credit is at the discretion of the receiving institution. These courses are semester specific and may change in title, content, and credit hours.

GLOSSARY AND INDEX OF COURSE PREFIXES

The following academic abbreviations identify each course prefix and subject matter used in this catalog. They are mandated by State Legislature for use by all public higher education institutions in Florida. Therefore, the prefix is not necessarily indicative of the department offering the course.

ACG Accounting: General
ADE Adult Education
ADV Advertising
AFH African History
AFR Air Force: Aerospace Studies
AMH American History
AML American Literature
ANG Anthropology: Graduate
ANT Anthropology
APK Applied Kinesiology
ARA Arabic Language
ARE Art Education
ARH Art History
ART Art
ASH Asian History
AST Astronomy
BCH Biochemistry (Biophysics)
BCN Building Construction
BOT Botany
BSC Biological Sciences
BUL Business Law
CAP Computer Applications (for Computer Scientists)
CBH Comparative Psychology and Animal Behavior
CCJ Criminology and Criminal Justice
CDA Computer Design/Architecture
CEN Computer Engineering
CET Computer Engineering Technology
CGS Computer General Studies
CHI Chinese Language
CHM Chemistry
CIS Computer Science and Information Systems
CJC Corrections
CJE Law Enforcement
CJJ Juvenile Justice
CJL Law and Process
CLP Clinical Psychology
CNT Computer Networks
COM Communication
COP Computer Programming
COT Computing Theory
CPO Comparative Politics
CRW Creative Writing
CTS Computer Technology and Skills
CYP Community Psychology
DAA Dance: Emphasis on Activity
DAN Dance
DEC Marketing and Distributive Education
DEP Developmental Psychology
EAB Experimental Analysis of Behavior
ECO Economics
ECP Economic Problems and Policy
EDA Educational Administration
EDE Education: Elementary
EDF Education: Foundations and Policy Studies
EDG Education: General
EDH Education: Higher
EDM Education: Middle School
EDS Education: Supervision
EEC Education: Early Childhood
EEE Electrical and Electronic Engineering
EEL Engineering: Electrical
EET Electronic Engineering Technology
EEX Education: Exceptional Child-Core Competencies
EGI Education: Gifted

EGM	Engineering: Science
EGN	Engineering: General
EGS	Engineering: Support
EIN	Industrial Engineering
EME	Education: Technology and Media
ENC	English Composition
ENG	English-General
ENL	English Literature
ESE	Education: Secondary
EST	Electronic Specialty Technology
ETD	Engineering Technology: Drafting
ETI	Engineering Technology: Industrial
ETM	Engineering Technology: Mechanical
EUH	European History
EVR	Environmental Studies
EVS	Environmental Science
EVT	Education: Vocational/Technical
EXP	Experimental Psychology
FAS	Fishery and Aquacultural Science
FIL	Film
FIN	Finance
FLE	Foreign Language Education
FRE	French Language
GEA	Geography: Regional Areas
GEB	General Business
GEO	Geography: Systematic
GER	German
GEY	Gerontology
GIS	Geographic Information Science
GLY	Geology
HFT	Hospitality Management
HIS	General History and Historiography
HLP	Health, Leisure, and Physical Education
HSA	Health Services Administration
HSC	Health Sciences
HUM	Humanities
IDH	Interdisciplinary Honors
IHS	Interdisciplinary Health Sciences
INP	Industrial and Applied Psychology
INR	International Relations
ISC	Interdisciplinary Sciences
ISM	Information Systems Management
JOU	Journalism
JPN	Japanese
LAE	Language Arts and English Education
LAH	Latin American History
LEI	Leisure
LIN	Linguistics
LIT	Literature
MAA	Mathematics: Analysis
MAC	Mathematics: Calculus and Precalculus
MAD	Mathematics: Discrete
MAE	Mathematics: Education
MAN	Management
MAP	Mathematics: Applied
MAR	Marketing
MAS	Mathematics: Algebraic Structures
MAT	Mathematics
MCB	Microbiology
MGF	Mathematics: General and Finite
MHF	Mathematics: History and Foundations
MHS	Mental Health Services
MLS	Medical Laboratory Science
MMC	Mass Media Communication
MSL	Military Science and Leadership
MTG	Mathematics: Topology and Geometry
MUE	Music: Education
MUG	Music: Conducting
MUH	Music: History/Musicology
MUL	Music Literature
MUN	Music: Ensembles
MUO	Music: Opera/Musical Theatre
MUR	Music: Church
MUS	Music
MUT	Music: Theory
MVB	Applied Music: Brasses
MVK	Applied Music: Keyboard
MVP	Applied Music: Percussion
MVS	Applied Music: Strings
MVV	Applied Music: Voice
MVW	Applied Music: Woodwinds
NGR	Nursing: Graduate
NSP	Nursing: Special
NUR	Nursing: Generic Undergraduate
OCB	Biological Oceanography
OCC	Chemical Oceanography
OCE	General Oceanography
OCG	Geological Oceanography
OCP	Physical Oceanography
ORI	Oral Interpretation
PAD	Public Administration
PCB	Process Biology: Cell/Molecular/Ecology/Genetics/Physiology
PCO	Psychology for Counseling
PEL	Physical Education Activities (General): Object Centered, Land
PEM	Physical Education Activities (General): Performance Centered, Land
PEN	Physical Education Activities: Water, Snow, Ice
PEO	Physical Education Activities (Professional): Object Centered, Land
PEP	Physical Education Activities (Professional): Performance Centered, Land
PET	Physical Education Theory
PGY	Photography
PHC	Public Health Concentration
PHH	History of Philosophy
PHI	Philosophy
PHM	Philosophy of Man and Society
PHP	Philosophers and Schools

PHY	Physics
PHZ	Physics (Continued)
PLA	Paralegal/Legal Assistant/Legal Administration
POS	Political Science
POT	Political Theory
PPE	Personality
PSB	Psychobiology
PSY	Psychology
PUP	Public Policy
PUR	Public Relations
QMB	Quantitative Methods in Business
RED	Reading Education
REE	Real Estate
REL	Religion
RTV	Radio/Television
SCE	Science Education
SDS	Student Development Services
SLS	Student Life Skills (Learning)
SOP	Social Psychology
SOW	Social Work
SPC	Speech Communication
SPM	Sports Management
SPN	Spanish Language
SPW	Spanish Literature (Writings)
SSE	Social Studies Education
STA	Statistics
SYA	Sociological Analysis
SYD	Sociology of Demography/Area Studies/Sociological Minorities
SYG	Sociology: General
SYO	Social Organizations
SYP	Social Processes
TAX	Taxation
THE	Theatre Studies and General Resources
TPA	Theatre Production and Administration
TPP	Theatre Performance and Performance Training
TRA	Transportation and Logistics
TSL	Teaching English as a Second Language
ZOO	Zoology

COURSE LISTINGS AND DESCRIPTIONS

A ACG - ACCOUNTING: GENERAL

ACG 2021 Principles of Financial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)

Introduction to financial accounting as an information and decision support system for users of financial information.

ACG 2071 Principles of Managerial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2021

Role of accounting as a tool in decision making process within economic framework of the firm.

ACG 3082 Accounting for Non-Majors
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)

Coverage of financial, managerial, and cost accounting topics with an emphasis on uses of accounting information; available to non- business majors only.

ACG 3101 Intermediate Financial Accounting I
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2071 and CGS 2570

Accounting principles and financial accounting practices. Particular emphasis on analysis of balance sheet accounts through problem solving.

ACG 3111 Intermediate Financial Accounting II
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Co-requisite: FIN 3403

Continuation of ACG 3101.

ACG 3311 Applied Managerial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2021 and ACG 2071

Gives students an opportunity to have basic business decision making skills on accounting information. Students will analyze cases involving various business situations. Topic areas to be covered include financial statement analysis, cost-volume-profit analysis, budgeting, performance evaluation, and special decision making. Available to non-accounting majors only.

ACG 3343 Cost Accounting
Department: Accounting & Finance

3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2071, CGS 2570

Provides students with the skills to prepare accounting information for use in the management decision making process. Contains material on accounting system design, budgeting, standard costing, direct costing, performance evaluation, and use of accounting information.

ACG 3401 Accounting Information Systems
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3101

Design of systems to capture, process and report accounting information.

ACG 3949 Cooperative Education
Department: Accounting & Finance
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation, confirming educational and career goals, personal and professional development, early start in career, earnings toward self-support, and improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of the director of Cooperative Education is required.

ACG 4151 Accounting Theory
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Critical evaluation of broad framework of financial accounting theory.

ACG 4174 Special Topics in Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3101

Provides exposure to recent issues and developments in financial accounting and the more significant areas that are of continuing interest. Offered concurrently with ACG 5807; graduate students will be assigned additional work. derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with ACG 5807; graduate students will be assigned additional work.

ACG 4201 Advanced Financial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with ACG 5205; graduate students will be assigned additional work.

ACG 4651 Auditing
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3111 and ACG 3401

Philosophy of financial auditing by public accountant; techniques and procedures to investigate and appraise accounting systems and financial statements; types of opinions, current literature, and official pronouncements; ethical and legal implications

ACG 4682 Forensic Accounting I
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3082 or ACG 3101

The purpose is to acquaint the student with both the pervasiveness of and the causes of financial fraud in our society, and to explore in detail the methods in which financial fraud is perpetrated. May serve as an elective for accounting majors.

ACG 4683 Forensic Accounting II
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 4682

A continuation of ACG 4682. May serve as an elective for accounting majors.

ACG 4941 Accounting Internship
Department: Accounting & Finance
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ACG 3101

Supervised field practicum in accounting-related position. May include activities in professional accounting, accounting information systems, or controllership. Graded on satisfactory/unsatisfactory basis only. Permission is required.

ACG 4949 Cooperative Education
Department: Accounting & Finance
0.0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation, confirming educational and career goals, personal and professional development, early start in career, earnings toward self-support, and improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Must be a master level student and permission of director of Cooperative Education is required.

ACG 5205 Advanced Financial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Problems in external financial reporting including business combinations and consolidated financial statements, foreign operations, and partnerships. Offered concurrently with ACG 4201; graduate students will be assigned additional work.

ACG 5255 International Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3111, ACG 4151

Provides a broad perspective on international accounting and reporting issues facing multinational corporations. Addresses International Financial Reporting Standards (IFRS), global harmonization and convergence of standards, accounting for foreign currency transactions, translation of foreign currency financial statements, and other foreign financial reporting issues.

ACG 5658 Non-Profit Accounting & Auditing
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3111

Study of the principles and practices of fund accounting and auditing in the state and local government (SLG) environment. The first part provides the student with fundamentals of fund accounting in a state and local government environment. The second part emphasizes financial and performance auditing in compliance with AICPA and GAO audit standards and on audits of Federal financial assistance under the Single Audit Act. Senior standing is required.

ACG 5807 Special Topics in Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)

Provides exposure to recent issues and developments in financial accounting and the more significant traditional areas that are of continuing interest. Offered currently with ACG 4174; graduate students will be assigned additional work. derivatives, environmental remediation, segment reporting present value based measurements, domestic and international standard setting, and business combinations. Offered concurrently with ACG 4174; graduate students will be assigned additional work.

ACG 6308 Advanced Managerial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3343

Management control and behavior, control structures, responsibility accounting, cost/profit/investment centers, budgets and performance evaluation, control of projects, control in service, and non-profit organizations.

ACG 6309 Accounting Aspects of Business Policy Determination
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 5026

Budgeting, profit planning, and controlling aspects of business policy determination. Available to non-accounting majors only.

ACG 6405 Accounting Information Systems
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3401

A seminar for the study of contemporary accounting system topics with an emphasis on internal controls. Primary emphasis is placed on an accounting system design project.

ACG 6805 Seminar in Financial Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 4151

A blend of traditional and contemporary accounting issues with focus on the development of financial accounting theory, the relationship of theory and research to standard setting, and discussion of current accounting standards. Examines the objectives, measurement models, controversies, and philosophy of financial accounting.

ACG 6856 Advanced Auditing
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 4652

Current professional practice, with emphasis on transaction cycles, risk analysis and the body of professional literature, including pronouncements of the Auditing Standards Board.

ADV - ADVERTISING

ADV 2214 Graphic Programs in Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides an introduction to the use of computers in the communication professions. Students will get "hands-on" experience using microcomputers for advertising design, publication design, word processing, database management, spreadsheets, presentation visuals, electronic mail, and using the Internet. Selected software for communication applications will be examined. Acceptable prerequisite for advanced computer-based Communication Arts courses.
Prerequisite: Major or Minor in Communication Arts.

ADV 3000 Introduction to Advertising
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Advertising as an institution, strategy development, and creative execution in the advertising media. Provides a basic understanding of the advertising process, advertising's role in society, its procedures and practices.

ADV 3101 Advertising Creative Strategy and Tactics
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: ADV 3000, ADV 2214

Covers the strategy, conceptualization, and execution of effective advertising. Professional advertising writing and art direction for both print and broadcast will be addressed. Familiarity with desktop publishing, especially Adobe Creative Suite is required.

ADV 3213 Professional Publication Design
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: ADV 2214

Addresses professional publication design theory and practice. Subjects include magazine, newsletter, collateral, and brochure design. Design topics include: typography, grids, graphics, paper, color, and identity. Commercial and desktop publishing are incorporated from a designer's viewpoint. Familiarity with desktop publishing, especially Adobe Creative Suite and Macintosh platform is required. Credit may not be received in both ADV 3213 and ADV 3213C.

ADV 3300 Advertising Media
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: ADV 3000

Analysis and evaluation of advertising media, market analysis, media planning, media strategies, discussions, and costs. Credit may not be received in both ADV3300 and ADV 3300C.

ADV 4202 Advertising Creative Direction
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: ADV 3101C

Advanced creative direction theory and execution. Will build professional-level portfolio. Credit may not be obtained in both ADV 4202 and ADV 4202C.

ADV 4801 National Student Advertising Competition
Department: Communication Arts
3.0 sh (may be repeated for up to 6.0 sh of credit)

Preparation for American Advertising Federation competition. Student agency prepares complete campaign, including: market research and segmentation, media and promotion plans, strategy, creation, and presentation. Professional standards stressed. Permission is required. Credit may be received in ADV 4801 and ADV 4801C up to 6 sh.

ADV 4802 Integrated Communication-Campaigns
Department: Communication Arts
3.0 sh (may not be repeated for credit)

The capstone experience for advertising and public relations majors. Prepare complete integrated communication campaign, including: research, strategy, design, copy, and presentation to client. Senior major or minor status in advertising or public relations required.

AFH - AFRICAN HISTORY

AFH 4503 Africans in the Atlantic World
Department: History
3.0 sh (may not be repeated for credit)

Africans comprised roughly two-thirds of 12 million migrants to the Americas between the 15th and 19th centuries. Course examines their experiences and their descendents in the making of the Atlantic world. Surveys critical time periods, institutions, individuals, and events, in the development of Creole societies throughout the Atlantic littoral. Emphasis placed on the construction of a "black Atlantic" identity among Africans and African-descended people throughout the Atlantic world. Special attention is paid to the history of West Africa. Story is told from an African point of view.

AFR - AIR FORCE: AEROSPACE STUDIES

AFR 1000 Air Force ROTC Physical Training
Department: Air Force
0.0 sh (may not be repeated for credit)

A mandatory course for all AFROTC students. The purpose is to enhance the fitness level of cadets and prepare them to meet AFROTC and Air Force standards, motivate cadets to pursue a physically fit and active lifestyle, improve both the safety and efficiency of physical training within AFROTC. AFROTC-sponsored PT activities include, but are not limited to, conditioning exercises, calisthenics, 1.5 mile run (PFT), Warrior Runs, etc. The Cadet PT program is an essential component of Leadership Laboratory. In order to successfully complete the PT portion of Leadership Laboratory, cadets must meet the attendance requirements IAW AFROTCI 36-2017, paragraph 1.

AFR 1101 The Foundations of the United States Air Force I
Department: Air Force
1.0 sh (may not be repeated for credit)

Designed to introduce cadets to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with follower-ship experiences.

AFR 1112 The Foundations of the United States Air Force II
Department: Air Force
1.0 sh (may not be repeated for credit)

Continuation of AFR 1101. Designed to introduce cadets to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 2130 The Evolution of USAF Air and Space Power I
Department: Air Force
1.0 sh (may not be repeated for credit)

Designed to examine the general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, provides the cadets with a knowledge level understanding for the general element and employment of air and space power, from an institutional doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values, through the use of operational examples and

historical Air Force leaders, and will continue to develop their communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 2132 The Evolution of USAF Air and Space Power II
Department: Air Force
1.0 sh (may not be repeated for credit)

Continuation of AFR 2130. Designed to examine the general aspects of air and space power through a historical perspective. Utilizing this perspective, covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, provides the cadets with a knowledge level power, from an institutional, doctrinal, and historical perspectives. In addition, the students will continue to discuss the importance of the Air Force Core Values, through the use of operational examples and historical Air Force leaders, and will continue to develop their communication skills. Leadership laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

AFR 3221 Air Force Leadership and Management I
Department: Air Force
3.0 sh (may not be repeated for credit)

Integrated management course emphasizing the individual as a manager in an Air Force milieu. The individual motivation and behavioral processes, leadership, ethics, communications, and group dynamics provide a foundation for the development of the junior officer's professional skills as an Air Force officer. The basic managerial processes involving decision-making and the use of analytic aids in planning, organizing, and controlling in a changing environment are emphasized. Laboratory provides opportunities for practical application of leadership skills. Completion of all AFR 100- and 200- level courses or completion of a 6 week summer field training required.

AFR 3232 Air Force Leadership and Management II
Department: Air Force
3.0 sh (may not be repeated for credit)

Organizational and personal values, management of forces in charge, organizational power, politics, managerial strategy and tactics, military organization. Examines the managerial and leadership problems found in industry and government. Leadership qualities and skills are examined in detail. Actual Air Force cases are used to enhance the learning and communicative processes. Leadership laboratory included.

AFR 4211 National Security Forces in Contemporary American Society I
Department: Air Force
3.0 sh (may not be repeated for credit)

Focuses on the Armed Forces as an integral element of society. Emphasizes the broad range of American civil-military relations, the environmental context in which U.S. defense policy is formulated and implemented, the societal attitudes toward the military, and the role of the professional military leader-manager in a democratic society. Each student prepares individual and group presentations for the class, writes reports, and participates in group discussions and seminars. Laboratory provides opportunities for practical application of leadership skills.

AFR 4214 National Security Forces in Contemporary American Society II
Department: Air Force
3.0 sh (may not be repeated for credit)

Stresses the fundamental values and socialization process associated with the Armed Services; the requisites for maintaining adequate national security forces; the political, economic, and social constraints on the national defense structure; the impact of technological and international developments on strategic preparedness; and the manifold variables involved in the formulation and implementation of national policy. Focuses on the role of the professional military officer in carrying out national policy. Military law and the military justice system are examined closely. Leadership laboratory included.

AMH - AMERICAN HISTORY

AMH 2010 United States to 1877
Department: History
3.0 sh (may not be repeated for credit)

Survey of the United States history beginning with Native American cultures on the eve of colonization through the end of Reconstruction. Examines political, economic, and social developments. (General Studies Course: SS/HIS)

AMH 2020 United States since 1877
Department: History
3.0 sh (may not be repeated for credit)

Survey of the United States history beginning in 1877 and ending with a discussion of America in the present era. Examines political, economic, and social developments. (General Studies Course: SS/HIS)

AMH 3540 American Military History
Department: History
3.0 sh (may not be repeated for credit)

The American military experience from the colonial era to the present, including causes, conduct, and consequences of

wars in American history, civil-military relations, and technology.

AMH 4111 Colonial America
Department: History
3.0 sh (may not be repeated for credit)

History of British Colonial America (1585-1776): founding of the colonies; development of economic, social, and political structures; the maturing of the colonies; and background to the American Revolution.

AMH 4131 American Revolutions, 1763-1828
Department: History
3.0 sh (may not be repeated for credit)

The social, economic and political histories of the American, Spanish- American and Haitian revolutions between 1763 and 1828.

AMH 4150 Early American Republic: 1789-1860
Department: History
3.0 sh (may not be repeated for credit)

Political, social, and economic history of the United States emphasizing Jeffersonian and Jacksonian influences on American life and thoughts, sectionalism, and westward expansion.

AMH 4160 Jacksonian America
Department: History
3.0 sh (may not be repeated for credit)

Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered--social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 4202 From Stalin to Star Wars: The Cold War and American Culture
Department: History
3.0 sh (may not be repeated for credit)

Progression and complexities of the Cold War through both global and domestic arenas, from the rise of Communism to the collapse of the Soviet Union.

AMH 4272 Cold War and Film
Department: History
3.0 sh (may not be repeated for credit)

Period films are used to learn about the Cold War and its affect on the course of events in United States history as well as its influence on aspects of American culture. Classes conducted through a combination of lectures, film screenings, and discussions as well as with individual and group projects.

AMH 4403 History of the New South
Department: History
3.0 sh (may not be repeated for credit)

Political, social, and economic developments in the South from the end of the Civil War to the present.

AMH 4420 History of Florida
Department: History
3.0 sh (may not be repeated for credit)

Pre-Columbian to present; social, economic, and political development. Offered concurrently with AMH 5424; graduate students will be assigned additional work.

AMH 4427 Florida Panhandle History
Department: History
3.0 sh (may not be repeated for credit)

Exposes students to the diverse history of that section of Florida bounded in the west by the Perdido River and in the east by the Apalachicola River - the Florida Panhandle.

AMH 4442 The American West
Department: History
3.0 sh (may not be repeated for credit)

History of the American West from the Louisiana Purchase in 1803 to the present.

AMH 4443 Spanish Borderlands
Department: History
3.0 sh (may not be repeated for credit)

The Spanish Borderlands (i.e., those regions between Florida and California, now belonging to the United States, which were once part of the Spanish colonial empire) between 1513 and 1821. Credit cannot be received for both AMH 4443 and AMH 4441.

AMH 4460 Urban History
Department: History
3.0 sh (may not be repeated for credit)

United States urban development from the period of colonization through the present. Applies both traditional and public history techniques.

AMH 4551 U. S. Constitutional and Legal History (to 1877)
Department: History
3.0 sh (may not be repeated for credit)

A comprehensive examination of the development of the U. S. constitutional and legal system from the colonial period through Reconstruction. Although the history of the U. S. Supreme Court plays an integral role in this course,

constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the legal system during the antebellum period - and the larger political, social, and economic forces surrounding and influencing this development - are given greater weight.

AMH 4552 U. S. Constitutional and Legal History (Since 1877)
Department: History
3.0 sh (may not be repeated for credit)

A comprehensive examination of the development of the U. S. constitutional and legal system from Reconstruction to the present day. Although the history of the U. S. Supreme Court plays an integral role in this course, constitutional and legal history transcends the mere study of great cases and judicial decisions; the preeminent role of the President, Congress, and the states in the making and development of the constitutional and legal system during the modern period of U. S. history - and the larger political, social, and economic forces surrounding and influencing the development - are given greater weight.

AMH 4560 Women in American History
Department: History
3.0 sh (may not be repeated for credit)

Changing roles and activities of women in American life from colonial era to the present.

AMH 4575 Civil Rights
Department: History
3.0 sh (may not be repeated for credit)

U.S. civil rights movement from its roots in the nineteenth century to the present.

AMH 4580 History of North American Indians
Department: History
3.0 sh (may not be repeated for credit)

Survey of North American Indian history from era of European contact to present. Topics include fur trade, removal, plains warfare, and U.S. government policy. Meets Multicultural requirement. Credit cannot be received for both AMH 4580 and AMH 4582.

AMH 4584 Politicians vs. Indians: Three Centuries of American Indian Policy
Department: History
3.0 sh (may not be repeated for credit)

Examines the development, implementation, and consequences of the U. S. government's policies concerning Native Americans, beginning with the foundation of American Indian policy during the colonial period and culminating with the resurgence of Native American self-determination during the last decades of the 20th century.

AMH 5424 History of Florida
Department: History
3.0 sh (may not be repeated for credit)

Pre-Columbian to present; social, economic, and political development. Offered concurrently with AMH 4420; graduate students will be assigned additional work.

AMH 5578 African-American Community History
Department: History
3.0 sh (may not be repeated for credit)

African-American communities including social interaction, business ventures, political involvement, religious perspectives, and the various obstacles faced in maintaining ethnic and cultural identity.

AMH 6XX0 Colonial America
Department: History
3.0 sh (may not be repeated for credit)

Seminar explores the major historiographical trends in Colonial American history (1585-1776). The course is more thematic than comprehensive and stresses breadth rather than depth.

AMH 6169 Seminar: Jacksonian America
Department: History
3.0 sh (may not be repeated for credit)

Examines the major issues, events, and figures that defined Jacksonian America, the period from the end of the War of 1812 to the Compromise of 1850. All aspects of the Jacksonian era will be covered--social, cultural, economic, political, constitutional, diplomatic, and military.

AMH 6429 Seminar: Local History
Department: History
3.0 sh (may not be repeated for credit)

Theory, method, and practice of local history.

AMH 6447 Seminar: Spanish Borderlands, 1513-1821
Department: History
3.0 sh (may not be repeated for credit)

Broad readings in the history of the Borderlands, defined as those regions between Florida and California, now belonging to the United States, which were once part of the Spanish colonial empire.

AML - AMERICAN LITERATURE

AML 2010 American Literature I
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Survey of major American literature from colonial times to the Civil War. Permission is required. Primarily for English majors and minors.

AML 2020 American Literature II
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Survey of major American literature from the Civil War to the present. Permission is required. Primarily for English majors and minors.

AML 2072 Sex, Money, and Power in American Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

From the days of Columbus, who came to the New World seeking fame and gold, to the era of Sex and the City, America has seen its share of sex scandals, political corruption, and war. What this suggests is that there have always been two different "Americas": the one of our dreams and the one that forever disappoints us. This course explores these two Americas through literary study. (Gordon Rule Course: Wrtg) (General Studies Course: HUM/LIT)

AML 3604 African American Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

This is a discussion and collaborative group work course in which literary texts from various genres including slave narratives, dramas, short stories, novels, poetry, and the nonfiction essay will be used to reveal how complicit the factors of race, gender, sexuality, nationality, class, and the "divided self" are in the African-American experience. Attendance and participation in the interactive classroom discussions and in in-class and out-of-class group work are crucial to a student's success in the class. (Meets Multicultural requirement).

AML 3624 Black Women Writers
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Poetry, drama, and prose of black women writers in America. Emphasis on works from the Harlem Renaissance to the present. Meets Multicultural requirement.

AML 4014 Topics in Early American Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Thematic approaches to the New World and early American literature, from the time of the Spanish conquest through the American Revolution and the early Republic. Topics vary according to faculty expertise and research interests.

AML 4015 Topics in Nineteenth-Century American Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Explores themes in nineteenth-century American literature, from the Romantics through realism and early modernism. Emphasizes new critical approaches and the racial, ethnic and cultural diversity of American literature. Topics vary according to faculty expertise and research interests. (Meets Multicultural requirement)

AML 4054 Topics in Twentieth-Century and Contemporary American Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Thematic approaches to twentieth-century and contemporary American Literature, from modernism through the present. Studies literature in relation to artistic and social movements of the past century. Topics vary according to faculty expertise and research interests.

AML 4154 American Poetry
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Critical study of selected works of American poetry. Analysis of themes, forms, and styles. Topics change each term. See department or instructor for specific topics.

AML 6455 Topics in American Literature
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Studies in major figures or movements in American literature. Topics change each term. See department or instructor for specific topic.

ANG - ANTHROPOLOGY: GRADUATE

ANG 5XX5 Modern Human Physical Variation
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L or equivalent

Evolutionary perspective on function and adaptive nature of biological variation in modern human. Offered currently with ANT 4516; graduate students will be assigned additional work.

ANG 5137 Nautical Archaeology Seminar
Department: Anthropology
3.0 sh (may not be repeated for credit)

Method and theory of nautical archaeology, development as a discipline, ethical considerations, evolution of ship construction and public laws and education.

ANG 5154 Spanish Florida in Anthropological Perspective
Department: Anthropology
3.0 sh (may not be repeated for credit)

A comprehensive anthropological exploration of the origins and evolution of Spanish Florida as a colonial society between 1513 and 1763. Draws upon the results of historical, ethnohistorical, archaeological (terrestrial and maritime), bioanthropological, and other research disciplines to present the Florida colony as a geographically-extensive multi-ethnic society within the context of the global Spanish empire.

ANG 5157 Pre-Columbian Archaeology Seminar
Department: Anthropology
3.0 sh (may not be repeated for credit)

Examination of the classic and current literature on key topics in North American pre-Columbian archaeology including peopling of the New World, Archaic adaptations, Woodland stage developments, and the Mississippian world.

ANG 5172 Historical Archaeology Seminar
Department: Anthropology
3.0 sh (may not be repeated for credit)

Emphasizes the goals, methods and theoretical base of historical archaeology. Particular emphasis is placed on theoretical development, acculturation, ethnicity, archaeological methods and documentary research. The class is an organized seminar with readings and discussions of specific topics.

ANG 5173 Historical Research Methods in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

A practical introduction to the use of historical documents in archeological research, both as primary sources of data for understanding the past, and as a complement to archaeological and other types of data. Examples and case-studies will center on the history of Florida during Spanish, British, and early American periods.

ANG 5181 Geographic Information Systems in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

A methods course in the use of Windows based Geographic Information Systems (GIS) technology that teaches the basic skills necessary to use GIS for research in anthropology, archaeology and cultural resource management. GIS philosophy and concepts, database design and use, computer assisted cartography and anthropological research using ArcGIS will be covered.

ANG 5247 Anthropology of the Bible
Department: Anthropology
3.0 sh (may not be repeated for credit)

A seminar on the social and cultural interpretations of the scriptures pertinent to Hebrew/Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through 4th century CE. Materials brought under scrutiny include the Torah, Hebrew Bible generally, Dead Sea scrolls, Christian canon, and the scriptures of the Naj Hammadi library. Much of the interpretation concerns alternative views of the political and social groups underlying these texts. Graduate students are required to conduct primary scriptural analysis informed by modern critical approaches. Offered concurrently with ANT 4247; graduate students will be assigned additional work. Credit may not be received in both ANG 5247 and ANG 5174.

ANG 5307 Cultures of Latin America
Department: Anthropology
3.0 sh (may not be repeated for credit)

Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socioeconomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANT 4332, graduate students will be assigned additional work.

ANG 5321 Cultures of Mexico
Department: Anthropology
3.0 sh (may not be repeated for credit)

Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico's place in the world Offered concurrently with ANT 4321; graduate students will be assigned additional work.

ANG 5322 Mesoamerican Cultural Traditions
Department: Anthropology
3.0 sh (may not be repeated for credit)

Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are

maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANT 4322; graduate students will be assigned additional work.

ANG 5408 Disease and Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANT 4532; graduate students will be assigned additional work.

ANG 5451 Race, Ethnicity, and Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANT 4451; graduate students will be assigned additional work.

ANG 5514 Human Origins
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L

Overview of the fossil evidence for human evolution, and hominid behavioral reconstruction using ethnographic and primate models. Offered concurrently with ANT 4586; graduate students will be assigned additional work.

ANG 5520 Human Osteology
Department: Anthropology
4.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511
Co-requisite: ANG 5520L

Detailed examination of human skeletal and dental anatomy, structure, and function. Techniques of osteological analysis, including determination of age, sex, stature, ancestry, and pathology. Offered concurrently with ANT 4525; graduate students will be assigned additional work. Credit may not be received in both ANG 5520 and ANG 5466.

ANG 5526 Dental Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L

Overview of the evolution, development, morphology, physiology, and pathology of the human dentition, with emphasis on applications in bioarchaeological research and forensic anthropology. Offered concurrently with ANT4526. Graduate students will be assigned additional work.

ANG 5550 Primatology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511

Overview of the taxonomy, evolutionary history, ecology, and behavior of non-human primates, and the theoretical basis and methodology of primate studies. Offered concurrently with ANT 4550; graduate students will be assigned additional work. Credit may not be received in both ANG 5550 and ANG 5522.

ANG 6002 Proseminar in Anthropology
Department: Anthropology
3.0 sh (may be repeated for up to 6.0 sh of credit)

Examines selected subjects in anthropology using the perspectives of all three sub-disciplines; cultural anthropology, biological anthropology, and archaeology. The seminar's goals are to introduce students to the subject, provide in-depth understanding of current issues, and examine the variety of theoretical and methodological approaches used by anthropologists. Contact department for specific topic each semester offered. No more than 6 semester hours credit may be received for both ANG 6931 and ANG 6002.

ANG 6084 Contemporary Anthropological Theory
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 4034

A seminar engaging readings from the works of key American and European anthropologists since the 1960s. Considers the debates between traditionalism and postmodern schools of anthropology, together with the essential problems for ethnology created by technology, complex society, gender issues, ethnicity, and applications of anthropological research.

ANG 6093 Research Design in Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

The fundamental issues of research design and implementation and the objectives and strategies of contemporary anthropological research. Scientific procedures and methods in the development of research programs that are logically structured and fundable. Alternative forms of deriving knowledge relating to important issues in epistemology and the philosophy of science will also be discussed.

ANG 6110 Advanced Method and Theory in Archeology Seminar
Department: Anthropology
3.0 sh (may be repeated for up to 0.0 sh of credit)

Includes an overview of the history and development of American archeology with an emphasis on methodological and theoretical topics. Class is an organized seminar with readings and discussions of specific topics.

ANG 6183L Advanced Laboratory Methods in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 4180L

Advanced training in the operation of an archaeological laboratory. Activities include laboratory organization and management as well as planning laboratory activities to meet deadlines, assignment of tasks, training, and supervising beginning students. Graduate students will instruct undergraduate students in artifact identification and documentation. Credit may not be received in both ANG 6183L and ANG 6823L.

ANG 6192 Historic Preservation Law Seminar
Department: Anthropology
3.0 sh (may not be repeated for credit)

Examination of pertinent laws and practices in all fields of historic preservation including archaeology, history, and architectural history. Credit may not be received in both ANG 6192 and ANG 6704.

ANG 6196 Policies, Practices and Archaeology in Historic Preservation
Department: Anthropology
3.0 sh (may not be repeated for credit)

Legislation and regulations concerning cultural resources and the historic preservation system. Also covers compliance archaeology, contract archaeology, ethics, collecting, looting and the role of Native Americans and ethnic groups.

ANG 6286 Contemporary Cultural Anthropological Theory
Department: Anthropology
3.0 sh (may not be repeated for credit)

Through readings and seminar discussion, students will explore key themes and thinkers of the past few decades which have contributed to the production of contemporary culture theory in anthropology. Important topics will include structuralism, cultural materialism, feminism and anthropology, post-modernism, world systems theory, post-colonialism, and symbolic anthropology. Key theorists will include Claude Levi-Strauss, Marvin Harris, Mary Douglas, Clifford Geertz, Sherry Ortner, Gayle Rubin, Pierre Bourdieu, Arjun Appadurai, and James Clifford. Credit may not be received in both ANG 6286 and ANG 6300.

ANG 6583 Evolutionary Theory in Biological Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511

Overview of seminal literature and key concepts in evolutionary theory, with particular emphasis on contemporary issues in human bio-cultural evolution.

ANG 6824 Advanced Archaeological Field Methods
Department: Anthropology
3.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ANT 4121 or ANT 4824 or ANT 4835. Only ANT 4835 and ANT 4121 can be used as prereqs for the maritime version of ANG 6824, while ANT 4824 or ANT 4121 can be used as prereqs for terrestrial version of ANT 6824

Advanced training in field methods including survey, testing, and site excavation. Also includes training in project planning, budgeting, supervision, and integration of information recovered from the field. Material and Supply Fee will be assessed. Permission is required.

ANG 6971 Anthropology Thesis
Department: Anthropology
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Preparation of masters thesis which includes problem identification, review of literature, design, data collection, analysis, and results. Permission of Thesis Committee required. Graded on satisfactory/unsatisfactory basis only.

ANT - ANTHROPOLOGY

ANT 1138 Introduction to Maritime Studies
Department: Anthropology
1.0 sh (may not be repeated for credit)

Basic introduction to maritime studies designed to familiarize students with the dynamic cultural and natural resources of the maritime environment. Students will gain knowledge and understanding of maritime environments.

ANT 2XX0L Biological Anthropology Lab
Department: Anthropology
1.0 sh (may not be repeated for credit)

Lab correlating with ANT 2511. General Studies Course (NS/LAB)

ANT 2000 Introduction to Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Introduction to subdivision of anthropology and anthropological thought, basic treatment of human evolution, origins of civilization, world archaeology and modern work cultures, stressing the continuities of human nature. (General Studies Course: SS/BEH) Meets Multicultural requirement

ANT 2100 Introduction to Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Basic introduction to archaeology; includes fundamental principles, field and laboratory methods, theories construction, special sites and conditions, and ethics. Information from all over the world is used. Field trips to local archeological sites are usually included. (General Studies Course: SS/BEH)

ANT 2400 Current Cultural Issues
Department: Anthropology
3.0 sh (may not be repeated for credit)

Deals with the problems that confront American culture such as poverty, language, race, gender, and violence. Involves critical, analytical and objective thinking so that our own culture and values can be viewed more objectively and other cultures can be better understood and respected. An important element is to provide an understanding of the role of the individual in the continuation or amelioration of issues that afflict American society. (General Studies Course: SS/SOC).

ANT 2511 Biological Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Human evolution and variation with emphasis on principles of evolution, primate biology, fossil records, variability in living populations, and the biological foundations of human culture capacities. (General Studies Course: NS/LEC)

ANT 3015 Forensics in the Media
Department: Anthropology
3.0 sh (may not be repeated for credit)

Provides students with relevant learning experiences focusing on the standard methods and techniques of forensic science and how it is inaccurately portrayed in popular media. Dispels CSI related myths in popular media, while learning about the multidisciplinary science behind real crime scene investigations. General Studies course (NAT SCI/LEC).

ANT 3101 Principles of Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Detailed explanation of the principles and methodology of current archaeology in U.S.; includes a brief history and theoretical orientation development of American archaeology.

ANT 3137 Shipwreck Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Introductory course in Underwater Archaeology with an emphasis on American Maritime History and New World Archaeology as they relate to Pensacola's maritime heritage. The format centers on assigned readings and classroom meetings with lectures, discussions, educational slides and videos, and workshops. An attempt is made to incorporate field activities on at least one occasion.

ANT 3141 Origins of Civilization
Department: Anthropology
3.0 sh (may not be repeated for credit)

Cultural processes leading toward civilization and theories explaining the emergence of civilization. Comparison of the early civilizations of Mesopotamia, Egypt, India, China, Mesoamerica, and Peru.

ANT 3153 North American Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Overview of archaeology of North America. Emphasis on patterns of development of regional cultures based on the archaeological record. Open to students in all majors.

ANT 3158 Florida Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Archaeology of Florida with emphasis on general patterns of development of Florida Indians. Field trips to area archaeological sites.

ANT 3165 South American Archeology
Department: Anthropology
3.0 sh (may not be repeated for credit)

The culture area of South America contains a high degree of environmental variability. The societies that developed exhibit considerable variation in form and social structure. Course examines that variation from an archeological and ethohistoric point of view. While focusing specifically on the cultural history of South America, it also discusses broader themes related to the evolution of human societies.

ANT 3212 Peoples and Cultures of the World
Department: Anthropology
3.0 sh (may not be repeated for credit)

Culture areas of the world and frameworks for cultural comparison. Detailed study of representative peoples around the world gives emphasis to non-Western societies and the reporting tool of ethnography. Meets Multicultural requirement.

ANT 3241 Anthropology of Religion
Department: Anthropology
3.0 sh (may not be repeated for credit)

Connections of religion with the social organization, behavioral systems, and technology of traditional peoples outside the world of Western monotheism. Emphasis on animistic symbolism, shamanism, traditional metaphors for deities, and prehistoric, historic, or ethnographic accounts of ritual systems.

ANT 3311 Indians of the Southeast: An Anthropological Perspective
Department: Anthropology
3.0 sh (may not be repeated for credit)

Southeastern Indians is a survey course of the Native American groups in the Southeastern U. S. and their culture. It begins with an overview of prehistory and continues into the early 19th century. Examines such key areas as socio-cultural archaeology, archaeology, biological archaeology, and history. Credit may not be received in both ANT 3311 and ANT 3317.

ANT 3312 North American Indians
Department: Anthropology
3.0 sh (may not be repeated for credit)

Past and present life styles of the diverse Native American cultures north of Mexico; discussion of the major culture areas with emphasis upon Indians of the Southeastern United States. Meets Multicultural requirement.

ANT 3352 African Cultures
Department: Anthropology
3.0 sh (may not be repeated for credit)

An introduction to African culture and society. Examination and analysis of the social foundations, beliefs, practices, and institutions that make up the rich and unique cultural values of the African people. The aim is to broaden students' awareness of the beliefs, practices, and institutions that make up the cultural values of the African people. Attention will be given to pre-colonial years with an overview of the post-colonial era.

ANT 3363 Japanese Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Basic introduction to the distinctive cultural heritage of the Japanese people. A brief overview of key historical events, fundamental philosophical tenets and basic religious beliefs form the background for exploring the prevalent customs, lifestyles and business practices in Japan today. Meets Multicultural requirement.

ANT 3403 Cultural Ecology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Interactions between human cultures and the natural and social environment. Stress is placed on the adaptive aspect of human culture and the maintenance or disruption of the ecosystem. Meets Multicultural requirement.

ANT 3467 Nutritional Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Evolution of human diet and subsistence patterns; examination of relationships between food, health, and society in past and present populations, from a biocultural perspective.

ANT 3520 Forensic Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Introduces students to the basic principles of forensic anthropology, and to current methods of determining personal identity, manner and cause of death, elapsed time since death, and other relevant information from skeletonized remains.

ANT 3610 Language and Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Introduction to linguistic principles as they relate to the study of culture. Discussion of origins and nature of language. Direct applications of linguistic concepts in anthropological structure analyses and ethnography. Credit may not be received in both ANT 3610 and ANT 3620.

ANT 4XX0 Field Methods in Forensic Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 3101, ANT 4525, ANT 4525L

On-site training in forensic field methods for the location, documentation, and recovery of human skeletal remains from surface and buried contexts. Includes use of surveying equipment and hand excavation tool. Permission is required.

ANT 4034 History of Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Development of anthropology with emphasis on the emergence of modern American discipline; detailed

treatment of the formation of evolutionary, historical, functional and ecological orientations of the discipline.

ANT 4115 Method and Theory in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 3101

History and evolution of archaeological methods and theory in the United States. Major schools of thought and currently developing ideas are compared and contrasted: sampling theory, site formation, geosciences. Permission is required.

ANT 4121 Combined Archaeological Field Methods
Department: Anthropology
1.0-9.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ANT 3101

Onsite training in maritime and terrestrial archaeology (6 weeks each). Structured hands on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and procedures. A diving certificate from a nationally recognized program and permission is required. Material and Supply Fee will be assessed.

ANT 4155 Archaeology of the Southeastern United States
Department: Anthropology
3.0 sh (may not be repeated for credit)

Prehistory of the Southeastern United States including chronology, ways of life and the evolution of cultural adaptations for the past 15,000 years. Field trips to archaeological sites and museums will be conducted.

ANT 4163 Art and Archaeology of Mesoamerica
Department: Anthropology
3.0 sh (may not be repeated for credit)

Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites.

ANT 4172 Historical Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 3101

Principles and methodology of historical archaeology; includes history of this specialty and theoretical development. Course is detailed and is required for Historical Archaeology graduate students prior to taking ANG 5172. Field trips to local historical archaeology sites and museums and permission is required.

ANT 4180L Laboratory Methods in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2000 and ANT 4824 or ANT 3101

Introduction to the basic methods of processing, classifying, coding and analysis or archaeological material. Hands-on laboratory methods are taught utilizing collections from recent field school and project excavations. These materials may include European, Mexican, and Native American ceramics, glass, metal, lithics, masonry, plants, and faunal remains.

ANT 4182C Conservation of Archaeological Materials
Department: Anthropology
4.0 sh (may not be repeated for credit)
Prerequisite: ANT 3101

Techniques of stabilizing and preserving deteriorated or corroded artifacts from archaeological sites. Hands on conservation techniques are taught in seminar/laboratory using chemicals and treatment procedures.

ANT 4190 Historic Preservation in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 3101

Includes a detailed review of basic historic preservation laws and regulations, the historic preservation system, and the articulation of archaeological resources in that system. Topics include historic preservation law, historic preservation system, archaeological resource management, and the contributions to the discipline of anthropology. Permission is required.

ANT 4191C Archaeological Data Analysis
Department: Anthropology
3.0 sh (may not be repeated for credit)

Focuses on the methods and techniques of analysis of archaeological data which is an essential step in the interpreting of data. The analytical techniques of archaeological data include construction and use of spread sheets, digital image development and manipulation, map making, data base construction, management, and querying. Geographic Information Systems (GIS) and computer assisted drawing (CAD) will also be introduced. Windows applications for the personal computer are used to perform these analyses.

ANT 4247 Anthropology of the Bible
Department: Anthropology
3.0 sh (may not be repeated for credit)

Social and cultural interpretation of the scriptures pertinent to Hebrew/Aramaic and Eastern Mediterranean cultures from the 2nd century BCE through the 4th century CE. Students

will read the assigned texts from the Torah, the Hebrew Bible generally, the Dead Sea Scrolls, the Christian canon, and the scriptures of the Naj Hammadi library. Offered concurrently with ANG 5247; graduate students will be assigned additional work. Credit may not be received in both ANT 4247 and ANT 4174.

ANT 4302 Sex Roles in Anthropological Perspective
Department: Anthropology
3.0 sh (may not be repeated for credit)

Female and male behavioral, social and biological similarities and differences viewed from a biological-cultural perspective. Emphases upon evolution and cross-cultural comparison.

ANT 4321 Cultures of Mexico
Department: Anthropology
3.0 sh (may not be repeated for credit)

Students will explore the key themes and elements of Mexican culture, including the development of a distinct Mexican national culture from Old World and New World roots, as well as the regional diversity of Mexican culture today. As students examine the composition and diversity of Mexican national and regional cultures, they will also encounter topics of race and ethnicity, socioeconomic class, gender, economic development, politics and social organization as they relate to Mexican culture and Mexico's place in the world Offered concurrently with ANG 5321; graduate students will be assigned additional work.

ANT 4322 Mesoamerican Cultural Traditions
Department: Anthropology
3.0 sh (may not be repeated for credit)

Students will explore important themes of Mesoamerican cultural tradition. Includes examination of both ancient and contemporary Native American culture in Mexico and Guatemala. Students will learn about continuities between ancient and contemporary Mesoamerican culture, including the ways in which indigenous cultural traditions are maintained in the face of persistent acculturative pressure, as well as about ways in which Native American cultural traditions in the region in other ways have been shaped and modified by the 500 year history since the Spanish Conquest. Offered concurrently with ANG 5322; graduate students will be assigned additional work.

ANT 4332 Cultures of Latin America
Department: Anthropology
3.0 sh (may not be repeated for credit)

Students will explore the themes and features of Latin American culture in general, including subsistence patterns and socionomic organization, family organization and gender, race and ethnicity, religion, and ideological constructions. Students will also learn about the regional cultural diversity in different Latin American areas. Offered concurrently with ANG 5307; graduate students will be assigned additional work. Credit may not be received in both ANT 4332 and ANT 4307.

ANT 4451 Race, Ethnicity, and Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Explores race and ethnicity and their relationship to culture in a cross-cultural, anthropological perspective. Will consider cultural constructions of race and ethnicity in the United States, in other areas of the Americas, and other areas of the world. Offered concurrently with ANG 5451; graduate students will be assigned additional work.

ANT 4516 Modern Human Physical Variation
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511/L

Evolutionary perspective on function and adaptive nature of biological variation in modern humans. Offered concurrently with ANG 5XX5 (Modern Human Physical Variation); graduate students will be assigned additional work.

ANT 4525 Human Osteology
Department: Anthropology
4.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511
Co-requisite: ANT 4525L

Detailed examination of human skeletal and dental anatomy, structure, and function. Techniques of osteological analysis, including determination of age, sex, stature, ancestry, and pathology. Offered concurrently with ANG 5520; graduate students will be assigned additional work. Credit may not be received in both ANT 4525 and ANT 4466.

ANT 4526 Dental Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L

Overview of the evolution, development, morphology, physiology, and pathology of the human dentition, with emphasis on applications in bioarchaeological research and forensic anthropology. Offered concurrently with ANG 5526; graduate students will be assigned additional work.

ANT 4532 Disease and Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Through lecture and discussion of readings we will explore the relationships between disease and culture. Main topics will include the basics of disease epidemiology in humans, human bio-cultural adaptations to disease, and the effects and influences of disease on human culture and society. Offered concurrently with ANG 5408; graduate students will

be assigned additional work. Credit may not be received in both ANT 4532 and ANT 4408.

ANT 4535 Race in Biological Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L

Examination of the biological basis of human diversity, the mechanisms of human population variation, and racial studies in historical and social context. Credit may not be received in both ANT 4535 and ANT 4587.

ANT 4550 Primatology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511, ANT 2511L

Overview of the taxonomy, evolutionary history, ecology, and behavior of non-human primates, and the theoretical basis and methodology of primates studies. Offered concurrently with ANG 5550; graduate students will be assigned additional work.

ANT 4586 Human Origins
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: ANT 2511 and ANT 2511L

Overview of the fossil evidence for human evolution, and hominid behavioral reconstruction using ethnographic and primate models. Offered concurrently with ANG 5514; graduate students will be assigned additional work.

ANT 4651 Aesthetics & Critical Theory
Department: Anthropology
3.0 sh (may not be repeated for credit)

Experiential and anthropological/semiotic examination of the topic of aesthetics as a central foundation of human culture. Students encounter working artists and scholars, engage Western and non-Western systems of aesthetic value, develop tools for several kinds of postmodern cultural criticism, and explore personal constructions of aesthetics and cultural studies. Permission is required.

ANT 4808 Applied Anthropology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Methods and techniques of applied anthropology, including ethical issues and approaches to planned culture change--social intervention, policy formation, small scale systems analysis. Practical activities in the local community will be included in the course.

ANT 4824 Terrestrial Archaeological Field Methods
Department: Anthropology
1.0-9.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ANT 3101

Onsite training in terrestrial field methods includes use of hand tools, surveying equipment, and some power equipment. Emphasized in the field are excavation techniques in a variety of situations, field scale drawings, and documentation. Field lab methods are often included. Permission is required. Material and Supply Fee will be assessed.

ANT 4835 Maritime Archaeological Field Methods
Department: Anthropology
1.0-9.0 sh (may be repeated for up to 9.0 sh of credit)

Onsite training in maritime archaeology. Structured hands on experience including training in both field and laboratory methods. Emphasized methods include site control grids, setting up excavation units, basic excavation techniques, use of hand tools, identification of ship structure and features, screening techniques, field documentation, principles and use of field instruments, and field conservation procedures. A diving certificate from a nationally recognized program and permission is required. Credit may not be earned in both ANT 4135 and ANT 4835. Material and Supply Fee will be assessed.

ANT 4853C Geographic Information Systems in Archaeology
Department: Anthropology
3.0 sh (may not be repeated for credit)
Prerequisite: CGS 2570

Application of Windows-based Geographical Information Systems technology in anthropology, archaeology and cultural resource management. Credit may not be earned in both ANT 4076C and ANT 4853C.

ANT 4944 Anthropology Internship
Department: Anthropology
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ANT 4190 and ANT 4824

Placement in community agency or other social or organizational setting. Supervision by faculty and agency. Student participates in full range of services available in the setting. An internship paper is required. A maximum of 6 sh may be applied to the major requirements. Permission is required.

APK - APPLIED KINESIOLOGY

APK 2202 Advanced Sport Performance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Introduction and application of training modalities for improving physical athletic performance.

APK 4113 Senior Seminar in Athletic Training
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: APK 4305, PET 4610, PET 4623, PET 4632

The purpose is to provide students with knowledge of the professional responsibilities and opportunities of a certified athletic trainer. Will provide students with hands on experience with a mock NATA written simulation and oral certification exam. Will also provide feedback to students regarding interviewing skills, writing resumes and research papers. Permission is required. Credit may not be received in both APK 4113 and PET 4621.

APK 4305 Evaluation Techniques of Athletic Injuries I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis. Credit may not be received in both APK 4305 and PET 4609.

APK 4312 Pharmacology Application in Athletic Training
Department: Health, Leisure, & Exercise Science
2.0 sh (may not be repeated for credit)
Prerequisite: PET 3660

Provides information on the use, interaction, side effects of pharmaceuticals used in the treatment of athletes. Provides medical terminology used in the description of medical conditions associated with athletic injury diagnosis and classification.

ARA - ARABIC LANGUAGE

ARA 1120C Beginning Arabic and Language Culture I
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

Designed for students with no experience in the Arabic language to develop knowledge through listening, speaking, reading, and writing Modern Standard Arabic. Focuses primarily on cultural understanding of the Arabic world, and basic Arabic language pronunciation, comprehension, communication, and grammar. In addition to the scheduled activities, students are required to complete weekly laboratory assignments.

ARA 1121C Beginning Arabic and Language Culture II
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)
Prerequisite: ARA 1120C

Continuation of ARA 1120C emphasizing listening and speaking skills with continued practice in reading and writing. Basic grammatical structures will be reviewed and new grammar introduced. The cultural component consists of in-depth considerations of issues in the Arabic world.

ARA 2200C Intermediate Arabic Language and Culture I
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)
Prerequisite: ARA 1121C

Continuation of ARA 1101C with increased complexity of grammatical constructions, greater emphasis on reading and writing and increased use of authentic materials. Some of the cultural information will be given in Arabic.

ARE - ART EDUCATION

ARE 3313C Teaching of Art in the Elementary School
Department: Art
2.0 sh (may not be repeated for credit)

Art education on elementary level. Orientation in philosophy, materials and procedures for elementary education majors. Not open to art majors. Material and Supply fee will be assessed.

ARE 3314C Methods and Materials in Elementary Art Instruction
Department: Art
2.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 2201C

Current art education practices and philosophies are addressed through a practical, hands-on exploration of the artistic media appropriate for the primary school child. Practicum activities in the public school classroom are required. This course is a prerequisite for ARE 4316C, and should be taken after completion of lower division art core. Permission is required. Material and Supply fee will be assessed.

ARE 4316C Special Methods in Art Education
Department: Art
4.0 sh (may not be repeated for credit)

Studio activity incorporating contemporary concepts in art education, instructional and resource materials, evaluation and development. Curriculum development and implementation into the concurrent practicum. Individual criticism, class discussion and classroom observation and participation in the public schools. (8hrs. observation and 8hrs. participation). Permission is required. Material and Supply fee will be assessed.

ARE 4662 Arts and the Community
Department: Art
3.0 sh (may not be repeated for credit)

Designed to introduce students to the theoretical foundations and practice techniques of integrating arts and the community. The format will include 1 hour of lecture and topical discussions, semester journaling, and 1 hour lab exercises in partnership with Belmont Arts and Cultural Center. Offered concurrently with ARE 5667; graduate students will be assigned additional work.

ARE 4940 Art Education Internship
Department: Art
6.0-12.0 sh (may be repeated for up to 12.0 sh of credit)

Capstone course of the Art Education Specialization. Student elects an elementary school setting, a secondary art classroom or both. All internships are limited to Escambia and Santa Rosa counties. Credit hours may vary, depending on the length of the internship. Students who select the full 12-hour option should not enroll in additional coursework, or pursue employment during the Art Internship experience. Graded on Satisfactory/Unsatisfactory basis only. Permission is required.

ARE 5667 Arts and the Community
Department: Art
3.0 sh (may not be repeated for credit)

Designed to introduce students to the theoretical foundations and practice techniques of integrating arts and the community. The format will include 1 hour of lecture and topical discussions, semester journaling, and 1 hour lab exercises in partnership with Belmont Arts and Cultural Center. Offered concurrently with ARE 4662; graduate students will be assigned additional work.

ARH - ART HISTORY

ARH 1010 Introduction to Art History
Department: Art
3.0 sh (may not be repeated for credit)

Surveys the key monuments of Western art and architecture from the upper Paleolithic period to the modern era. Not open to art majors. (General Studies Course: HUM/FA) Meets Multicultural requirement.

ARH 2050 Western Survey I: Greek to Renaissance
Department: Art
3.0 sh (may not be repeated for credit)

Analyses the western aesthetic heritage within its cultural context from the birth of Greek art through the late Renaissance era. Required for all art majors. (General Studies Course: HUM/FA), (Gordon Rule Course: Wrtg). Meets Multicultural requirement.

ARH 2051 Western Survey II: Baroque to Contemporary
Department: Art
3.0 sh (may not be repeated for credit)

Analyzes the Western aesthetic heritage within its cultural context from the seventeenth century to the present. Required of all art majors. Satisfies the lower division requirement, ARH 1050. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/FA) Meets Multicultural requirement.

ARH 3590 Perspectives in Ancient and World Art
Department: Art
3.0 sh (may not be repeated for credit)

The changing interpretations of ancient and world art will be examined in the context of contemporary opinion. Areas in ancient art include prehistoric Europe, Mesopotamia, and Egypt. Emphasis will be placed on the arts of Asia, Africa, Oceania, and the Americas. Credit may not be received in both ARH 3590 and ARH 4590. Meet Multicultural requirement.

ARH 3610 American Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050, ARH 2051

A comprehensive survey of American painting, sculpture, and architecture from the seventeenth century to the third quarter of the twentieth century.

ARH 3621 American Art
Department: Art
3.0 sh (may not be repeated for credit)

A comprehensive survey of American painting, scuplture, and architecture from the seventeenth century to the third quarter of the twentieth century.

ARH 3871 Women in Art
Department: Art
3.0 sh (may not be repeated for credit)

Investigates the history and issues surrounding the roles of women in the visual arts: women as artists, models, subjects, and patrons. Explores differences in the portrayal of women by both women and men artists. Includes assessment of women's themes, materials, critical theory, and cultural identities.

ARH 4041 Outline of American Architecture
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 4042 or ARH 5046 or both ARH 2050 and ARH 2051.

Examines the stylistic origins and technical developments of American Architecture from native constructions to contemporary buildings. Within this chronological framework, analyzes the adaptive application of the prevailing national style to regional circumstances and building types. Offered concurrently with ARH 5045; graduate students will be assigned additional work.

ARH 4042 Outline of European Architecture
Department: Art
3.0 sh (may not be repeated for credit)

Examines the fundamental styles of European architecture from Ancient Greece to the present day. Emphasis will be placed on the technical evolution of design as a response to cultural heritage and the theoretical principles of master architects and builders. Offered concurrently with ARH 5046; graduate students will be assigned additional work. Meets Multicultural requirement.

ARH 4112 Aegean Bronze Age and Greek Art and Architecture
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 1010 or ARH 2050

Covers the development of art and architecture during both the Bronze Age in the Aegean area and the Iron Age in the ancient Greek world.

ARH 4150 Etruscan and Roman Art and Architecture
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 1010 or ARH 2050

Covers the development of ancient art and architecture during both the Etruscan and Roman periods.

ARH 4302 Late Renaissance Art in Italy
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050 and ARH 2051

Examines the achievements of Italian artists and architects during the Cinquecento, including the art of Leonardo, Michelangelo, Raphael, Titian, Bramante and other noted masters. Offered concurrently with ARH 5314; graduate students will be assigned additional work. Meets Multicultural requirement.

ARH 4305 Early Italian Renaissance Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050 and ARH 2051

Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 5315; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4412 Nineteenth Century European Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050 and ARH 2051

Focuses on the conflict between revolutionary and conservative forces in European art from Neo-Classicism to Symbolism. Offered concurrently with ARH 5440; graduate students will be assigned additional work. Gordon Rule Course: Wrtg. Meets Multicultural requirement. Credit may not be received for both ARH 4412 and ARH 4430.

ARH 4450 Modern Art 1900-1950
Department: Art
3.0 sh (may not be repeated for credit)

Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 5465; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg) Meets Multicultural requirement.

ARH 4470 Art After 1950
Department: Art
3.0 sh (may not be repeated for credit)

Central issues and concepts of contemporary movements in art. Offered concurrently with ARH 5477; graduate students will be assigned additional work. Meets Multicultural requirement.

ARH 4652 Art and Archaeology of the Ancient Andes
Department: Art
3.0 sh (may not be repeated for credit)

Cultural and artistic heritage of the pre-Columbian Andean region through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5658; graduate students will be assigned additional work. Meets Multicultural requirement. Credit cannot be received for both ARH4652 and ARH4656.

ARH 4653 Art and Archaeology of Mesoamerica
Department: Art
3.0 sh (may not be repeated for credit)

Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 5659; graduate students will be assigned additional work. Credit may not be earned in both ARH 4655 and ARH 4653. Meets Multicultural requirement.

ARH 4710 History of Photography
Department: Art
3.0 sh (may not be repeated for credit)

The history of photography and how it documents, relates to, reflects, and shapes history, culture and the arts. Offered concurrently with ARH 5715; graduate students will be assigned additional work.

ARH 4830C Museum and Gallery Studies
Department: Art
3.0 sh (may not be repeated for credit)

Examines in depth the theoretical and practical aspects of museum/gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 5836; graduate students will be assigned additional work. Credit may not be received in both ARH 4830C and ARH 3830C.

ARH 4835 Museum and Gallery Studies Practicum
Department: Art
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ARH 4830C

Advanced study of theoretical and practical aspects of museum/gallery management through placement in a non-profit museum or gallery. Students participate in full range of activities available in the setting, but are also expected to complete a specific museum/gallery project. Offered concurrently with ARH 5947; graduate students will be assigned additional work. Permission is required.

ARH 4880 Art in Environment
Department: Art
3.0 sh (may not be repeated for credit)

Examines the history and major concepts of environmental art including land art, performance, installation, earthworks, site-specific conceptual, and public art. The innovations, discourses, and controversies will be discussed with an emphasis on the principle ideas, processes, and contexts of the artworks.

ARH 4900 Readings in Art History
Department: Art
1.0-3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: Minimum of 2 upper division Art History courses.

Critical examination of the major research that shaped past and current opinion in an area of art history elected by the students. Advanced students only. Permission is required.

ARH 4911 Research in Art History
Department: Art
3.0 sh (may be repeated for up to 6.0 sh of credit)

Provides the advanced art history student with an opportunity to design and execute an original research project, one which ideally leads to publication or implementation. May be selected as a capstone experience. (Gordon Rule Course: Wrtg) Permission is required.

ARH 4930 History of Art History Seminar
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050, ARH 2051.

Examines the changing perspectives and influences that have affected the discipline, from Vasari's biographical approach to the post-structuralism of the New Art History. Required for art history majors.

ARH 4955 Museum, Gallery, or Foreign Study Program
Department: Art
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Deeper understanding of works of art through a direct study of originals. Credit may be given for independent study or course work completed at recognized museums, galleries, foreign universities, or study-abroad programs. Advanced students only. Graded on satisfactory/ unsatisfactory basis only. Permission is required.

ARH 5045 Outline of American Architecture
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 4042 or ARH 5046 or ARH 2050 and ARH 2051.

Examines the stylistic origins and technical developments of American Architecture from native constructions to contemporary buildings. Within this chronological framework, analyzes the adaptive application of the prevailing national style to regional circumstances and building types. Offered concurrently with ARH 4041; graduate students will be assigned additional work.

ARH 5046 Outline of European Architecture
Department: Art
3.0 sh (may not be repeated for credit)

Examines the fundamental styles of European architecture from Ancient Greece to the present day. Emphasis will be placed on the technical evolution of design as a response to cultural heritage and the theoretical principles of master architects and builders. Offered concurrently with ARH 4042; graduate students will be assigned additional work.

ARH 5314 Late Renaissance Art in Italy
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050 and ARH 2051

Examines the achievements of Italian artists and architects during the Cinquecento, including the art of Leonardo, Michelangelo, Raphael, Titian, Bramante and other noted

masters. Offered concurrently with ARH 4302; graduate students will be assigned additional work.

ARH 5315 Early Italian Renaissance Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050 and ARH 2051

Examines the growth of the Italian Renaissance style in architecture, sculpture and painting from the late Dugento to the end of the Quattrocento. Offered concurrently with ARH 4305; graduate students will be assigned additional work.

ARH 5440 Nineteenth Century European Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 2050 and ARH 2051

Focuses on the conflict between revolutionary and conservative forces in European art from Neo-Classicism through Symbolism. Offered concurrently with ARH 4412; graduate students will be assigned additional work.

ARH 5465 Modern Art 1900-1950
Department: Art
3.0 sh (may not be repeated for credit)

Ideas which shaped the process of formulation from Fauvism to Abstract Expressionism. Offered concurrently with ARH 4450; graduate students will be assigned additional work.

ARH 5482 Art After 1950
Department: Art
3.0 sh (may not be repeated for credit)

Central issues and concepts of contemporary movements in art. Offered concurrently with ARH 4470; graduate students will be assigned additional work. Credit cannot be received for both ARH5482 and ARH5477.

ARH 5658 Art and Archaeology of the Ancient Andes
Department: Art
3.0 sh (may not be repeated for credit)

Cultural and artistic heritage of the pre-Columbian Andean region through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 4656; graduate students will be assigned additional work.

ARH 5659 Art and Archaeology of Mesoamerica
Department: Art
3.0 sh (may not be repeated for credit)

Cultural and artistic heritage of pre-Columbian Mesoamerica through a study of surviving artifacts and excavated sites. Offered concurrently with ARH 4653; graduate students will be assigned additional work.

ARH 5715 History of Photography
Department: Art
3.0 sh (may not be repeated for credit)

The history of photography and how it documents, relates to, reflects and shapes history, culture and the arts. Offered concurrently with ARH 4710; graduate students will be assigned additional work.

ARH 5836 Museum and Gallery Studies
Department: Art
3.0 sh (may not be repeated for credit)

Examines in depth the theoretical and practical aspects of museum/gallery management. Includes promotion, finance, grantsmanship, space design and other related issues. Offered concurrently with ARH 4830C; graduate students will be assigned additional work. Permission is required.

ARH 5947 Museum and Gallery Practicum
Department: Art
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ARH 5836 or ARH 4830C

Advanced study of theoretical and practical aspects of museum/gallery management through placement in a non-profit museum or gallery. Students will participate in a full range of activities available in the setting, but are also expected to complete a specific museum/gallery project. Offered concurrently with ARH 4835; graduate students will be assigned additional work. Permission is required.

ART - ART

ART 1015C Exploring Artistic Vision
Department: Art
3.0 sh (may not be repeated for credit)

Challenges the student to explore alternative modes of perception and interpretation, through lectures, discussion, and hands-on application. (General Studies Course: HUM/FA)

ART 1300C Drawing I - Fundamentals
Department: Art
3.0 sh (may not be repeated for credit)

Students will study several media and how to use them. Instruction in drawing still life, landscapes and other objects/subjects provided. Students develop perception of proportions along with black/white media compositional concepts. Invites all students. Material and supply fee will be assessed.

ART 1301C Drawing II - Fundamentals
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C

Continuation and further development of the studies in ART 1300C. Material and supply fee will be assessed.

ART 2201C Two-Dimensional Design
Department: Art
3.0 sh (may not be repeated for credit)

Introduction to the concepts by which shape, value and color control space; ideas fundamental to the visual arts. Invites all students. Material and supply fee will be assessed.

ART 2203C Three-Dimensional Design
Department: Art
3.0 sh (may not be repeated for credit)

Designed to provide the beginning art major with a firm grounding in the technical strategies needed to create forms in space. Material and Supply Fee will be assessed.

ART 2400C General Printmaking
Department: Art
3.0 sh (may not be repeated for credit)

Introduction to various printmaking techniques possibly including block printing, calligraphy, monotype, etching and engraving. Content varies according to instructor. Prerequisite for all other printmaking courses. Invites all students. Material and Supply Fee will be assessed.

ART 2500C Painting I - Fundamentals
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C and ART 2201C

Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects/subjects. Some materials supplied. Primarily an introductory painting course for art majors. Credit may not be earned in both ART 2510C and ART 2500C. Material and supply fee will be assessed.

ART 2600C Introduction to Digital Studio Practice
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 2201C

A prerequisite for all courses in the Digital Practice Studio. Students gain a working knowledge of Apple Macintosh OS, are introduced to the basics of Adobe Photoshop and exposed to the myriad of programs and equipment available in the Department of Art Mac Lab. Material and Supply Fee will be assessed.

ART 2701C Fundamentals of Sculpture
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, ART 2201C, ART 2203C.

Course explores a wide range of contemporary sculpture, and familiarizes students with current genres and issues. Assignments develop important foundational skills in 3-D design, construction and materials, while challenging the mind with compelling concepts. Material and Supply Fee will be assessed.

ART 2821 Art and Visual Culture Today
Department: Art
3.0 sh (may not be repeated for credit)

Examines the cross-fertilization of visual forms via various media from painting and photography to film and advertising. Investigates social practices and institutions that produce images, and the power of images to shape our opinions and beliefs. Also addresses theories about modes of seeing. (General Studies Course: HUM/FA)

ART 3213C Advanced Ideas and Concepts
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, ART 2201C, ART 2203C

A personal and group exploration of the artistic process, which harnesses the skills developed in the foundation art and media- based course to expand the creative potential. For advanced art majors and all BFA candidates in their junior year. Material and Supply fee will be assessed.

ART 3312C Drawing III: The Figure
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, and ART 2201C.

Requires essential education in drawing the human figure, whose accurate visualization remains a vital component of all artistic media and practice. Builds on the foundation art courses in drawing and two dimensional-design, which are necessary prerequisites. Material and Supply Fee will be assessed.

ART 3313C Drawing for Non-Majors
Department: Art
3.0 sh (may not be repeated for credit)

Drawing for Non-Majors is for beginning artists who want to improve their drawing skills. Emphasizes composition, line, proportion, perspective, value, shading, and introduces color. Students will explore the technical handling of different types of materials through exercises and finished drawings. Material and Supply fee will be assessed.

ART 3442C Advanced Printmaking: Intaglio
Department: Art

3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, ART 2203C, ART 2210C.

Discussion and exploration into a variety of printmaking techniques unique to the intaglio process. The philosophical and functional aspects of the course will be cultivated. Material and Supply Fee will be assessed.

ART 3484C Principles of Graphic Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2600C

An overview of the formal elements of design, contextualized within a framework that stresses experimentation, creativity, innovation, and expression. Products using Photoshop, Illustrator and InDesign are oriented toward commercial applications in print based media. Material and Supply Fee will be assessed.

ART 3504C Painting II-Intermediate
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1301C and ART 2500C

Includes fundamentals review. Develops individuality. Uses observational and conceptual experiences/project. Stresses understanding/perceiving color, using media and techniques appropriate to the student's personal development. Primarily for art majors. Credit may not be earned in both ART 3530C and ART 3504C. Material and Supply Fee will be assessed.

ART 3505C Painting III-Advanced
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3504C

Individual development in media, technique and concept will be stressed. Possibilities of painting other then easel painting will be presented. Investigation and experimentation responding to situations and projects is required. Credit cannot be received for both ART 3505C and ART 3405C.

ART 3507C Painting for Non-Majors
Department: Art
3.0 sh (may not be repeated for credit)

Students will study paint, color, the tools to use and how to use them. The student is instructed to paint using still life, landscapes, possibly figures, and other objects/subjects. Some materials supplied. Primarily an introductory painting for majors outside of art. Invites all students. Material and Supply Fee will be assessed. Credit may not be received in both ART 3507C and ART 3500C.

ART 3613C Digital Multimedia
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2600C

Issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, emerging technology, installation, programming and/or robotics to be determined by instructor. Students work both individually and collaborate on projects that can involve video, space, time, objects, film, robotics, programming, or any other appropriate media. Material and Supply Fee will be assessed.

ART 3618C Introduction to Web-based Art
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2600C

An introduction to the Internet as a platform for fine art practice. A study of the history of web-based interactive artworks, contemporary concepts and issues in interactive art are explored through regular critiques, readings, and screenings. Students will produce and critique artworks using HTML, scripting, and software-based site production for the web. Material and Supply Fee will be assessed. Credit may not be received in both ART 3618C and ART 4618C.

ART 3630C Artist's Video
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ART 2600C

An introduction to digital video using Final Cut Pro, iMovie, and After Effects. Focuses on video as an art medium, the history of video art and looking at examples from key artists of our time. Students must purchase a flash drive or a firewall external hard drive of at least 40GB for use in this class. Material and Supply Fee will be assessed. Credit may be received in both ART 3630C and ART 4630C up to 9 credit hours.

ART 3660C Digital Photo Exploration
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2600C

Designed for student artists interested in capturing digital images that can stand alone as compelling visual statements, or be incorporated within a broader artistic framework. Material and Supply Fee will be assessed.

ART 3714C Advanced Sculpture: Exploring Materials
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2701C

Focuses on sculptural media and object making, both traditional and in contemporary practice. Provides further

investigation into the selection of 3-D materials and its implications for authorship, meaning, environmental responsibility, and health concerns. Material and Supply Fee will be assessed.

ART 3718C Advanced Sculpture: Intro to the Genres
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2701C

Reorganizes the open-ended nature of "sculpture" as a category in art practice today. Moves beyond the conventional definition of sculpture as concerned with volume and mass in space. Topics include how art is responsive to its context, and the issue of authorship, process, and vulnerability will be explored. Material and Supply Fee will be assessed.

ART 3737C Advanced Sculpture: Non-Place
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2701C

Theory-based studio course that addresses anthropologist Marc Auge's concept of the Non-Place. Course will examine what makes a space a non-place. Students will be challenged to think about the ways in which various kinds of art, architecture, and design can transform our everyday experiences of non-places into places that inspire. Material and Supply Fee will be assessed. Permission is required.

ART 3739C Advanced Sculpture: Site Specific Installation
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2701C

Course will examine strategies for work on site, gaining an understanding of the complex intersection of the social, cultural, built, and natural environment that are essential to the creation of an artist's intention, independently or in collaboration with others, in and out of the art world. Material and Supply Fee will be assessed.

ART 3760C Ceramics
Department: Art
3.0 sh (may not be repeated for credit)

Variety of handforming processes including throwing on the potter's wheel. Deals with basic glazing and firing techniques. Invites all students. Material and Supply Fee will be assessed. Credit may not be earned in both ART 3110C and ART 3760C.

ART 3762C Ceramics: Wheelthrowing
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3760C

Intermediate course in throwing techniques. Deals with clay in terms of functional as well as sculptural considerations. Covers a broad range of technical information. Material and supply fee will be assessed. Credit cannot be received for both ART 3762C and ART 3113C.

ART 3764C Ceramics: Handbuilding
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3760C

Handbuilding techniques. Deals with clay in terms of functional as well as free-form design. Covers a broad range of technical information. Material and supply fee will be assessed. Credit may not be earned in both ART 3111C and ART 3764C.

ART 3769C Sculptural Ceramics
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ART 2203C, ART 3760C

Designed to encompass all skill levels from beginning to advanced. Work will be focused on using the clay body and glazes to create non-utilitarian works of art. Wheel throwing, coil building and slab building methods will be employed as needed to realize this goal. The main firing method will be cone 10 gas firing to create long-lasting stoneware pieces. Material and Supply Fee will be assessed.

ART 3827C Conceptual Research and Development
Department: Art
3.0 sh (may not be repeated for credit)

Course engages art majors as leaders in the creation of cultural products for a fabricated society, one whose structure bears an intended resemblance to today's society. Students learn to lead group discussions and activities, culminating in a public exhibition of the culture's "artifacts".

ART 3930 Special Topics in Painting and Drawing
Department: Art
1.0-9.0 sh (may be repeated for up to 27.0 sh of credit)

Unique topics concerning painting and drawing. Students should have background of fundamentals in painting and/or drawing. Assignments will vary.

ART 4161C New and Mixed Media: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ART 3213C

Focused research in new and mixed media with attention to the development of a personal artistic statement. For advanced upper-level students only. May be designated a capstone experience. Permission is required.

ART 4332C Drawing IV - Advanced
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3312C

While there is a continuation of the development of many of the concepts of drawing from ART 3312C, this course is dedicated to the study of life drawing concepts. The human figure will be the primary subject matter. Extensive experimentation and exploration of drawing media use in relation to the figure will be stressed. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both ART 4332C and ART 4320C.

ART 4333C Drawing V - Advanced
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 4332C

Use of classroom/studio situation to direct the student towards independent study. Student will be required to participate in the structuring of projects and experiences that demand individual investigation and development. Material and supply fee will be assessed. Credit may not be earned in both ART 4332C and ART 4333C.

ART 4386C Drawing: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)

Topics tailored to the advanced drawing student's personal creative exploration. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.

ART 4461C Printmaking: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ART 2400C, ART 3442C

Focused research in printmaking with attention to the development of a personal artistic statement. For advanced upper-level students only. May be used as a capstone experience by studio art majors. Permission is required. Material and Supply Fee will be assessed.

ART 4506C Painting IV-Advanced
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3405C

Use of the classroom/studio to direct the student in independent study. Students will be required to initiate the structuring of projects and experiences and to pursue them with individual development and investigation. Credit may not be earned in both ART 4532C and ART 4506C.

ART 4520C Painting: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)

Unique topics concerning painting for the upper level or advanced student. Students should have an extensive background in the fundamentals of painting, drawing, and design, as well as an advanced knowledge of ideas/concepts in contemporary painting. May be designated a capstone experience.

ART 4619C Advanced Digital Multimedia
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3613C, ART 3618C, ART3620C

Advanced issues and applications of digital technology and critical thinking in art. Conceptual utilization of both theoretical thinking and contemporary digital studio art practice, with possible emphasis on video art, video streaming technology, installation, programming and/or robotics to be determined by instructor. Students work both individually and in collaboration on projects that can involve video, sound, space, time, objects, film, robotics, programming or any other appropriate media. Material and Supply Fee will be assessed.

ART 4632 Digital Studio Senior Project
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ART 3618C

Designed for seniors in the Graphic Design BA and Digital Art BFA programs pursuing self-initiated and self-directed projects. Projects may range in scope from an internship with a local company for Graphic Design students, to development of a single (or sequential) large-scale artwork. Students' proposals must be approved by the instructor at least two weeks before the start of the semester. May be designated a capstone experience. Permission is required.

ART 4633C Advanced Web Techniques for Designers
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 3484C or ART 3618C

An exploration of advanced issues and techniques in web environments for design professionals. Issues addressed include accessibility, usability, interface, and information design using techniques and software best suited to the contemporary marketplace.

ART 4662C Conceptual Exploration in Mixed Print Media
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 1300C, ART 1301C, ART 2201C, ART 3660C

Advanced course designed for emerging artists interested in manipulating and combining digital imagery, photography, and traditional printmaking, both as a process and as a finished product. Students must have prior studio experience in two of the three areas mentioned. Material and Supply fee will be assessed.

ART 4712C Sculpture: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)

Focused research into advanced specialized sculptural processes not normally covered within the normal sculpture course offerings. Processes covered are dependent upon direction of work. Contemporary art concepts are an integral part of this class. For advanced upper-level students only. May be designated a capstone course.

ART 4787C Ceramics: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: ART 3764C

Design and the development of individual expression in clay. Student has a choice of forming techniques. Covers advanced firing and glazing techniques. Material and supply fee will be assessed. Credit may not be earned in both ART 4760C and ART 4787C.

ART 4800 Portfolio
Department: Art
3.0 sh (may not be repeated for credit)

Provides the information, support, and technical ability needed to build a strong portfolio and prepare applications to graduate schools, residencies, and internships. Explains how to professionally enter the contemporary art market. Open to all art majors, but required of BFA students. Credit may not be received in both ART 4800 and ART 4800C.

ASH - ASIAN HISTORY

ASH 4623 Women in the Muslim World
Department: History
3.0 sh (may not be repeated for credit)

An interdisciplinary course designed to provide an historical overview of women in the Muslim world (with emphasis on the Middle East). Integrates imaginative literature of non-fiction, readings and visuals from art history, Islam, psychology, religion, history and other academic disciplines as well as Nationalist and Islamist perspectives. Covers historical, theoretical, social and cultural perspectives on a variety of issues as well as how Muslim society has constructed, articulated, manifested, institutionalized and marginalized women.

AST - ASTRONOMY

AST 3033 Modern Astronomy
Department: Physics
3.0 sh (may not be repeated for credit)

Comprehensive survey of the universe and its appearance from earth. Seasons, tides, eclipses. The solar system, stellar evolution and galaxies. Quasars, pulsars, black holes. (General Studies Course: NS/LEC)

B BCH - BIOCHEMISTRY (BIOPHYSICS)

BCH 3033 Biochemistry I
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210
Co-requisite: BCH 3033L

A first course in biochemistry dealing with the classification, function, and chemistry of proteins, carbohydrates, and nucleic acids and the smaller molecules from which they are derived. Conformational properties of biomolecules, enzyme kinetics and mechanisms, allosterism and cooperativity are surveyed. Material and supply fee will be assessed for corresponding lab.

BCH 3034 General Biochemistry: Metabolism
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: BCH 3034L

Builds on the knowledge gained in BCH 3033 or CHM 2210/CHM 2211 which deals with biological membranes and the anabolic and catabolic pathways of the major biological macromolecules. Material and supply fee will be assessed for corresponding lab.

BCH 6107 Thesis
Department: Chemistry
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

In collaboration with a chemistry faculty member, students will identify a significant biological chemistry oriented research topic. They will perform an extensive review of academic literature, develop testable hypotheses or research questions, gather and analyze experimental data, and write up final conclusions based on results of the experiments. May enroll for more than one term--minimum of 6 sh required for M.S. Biological Chemistry degree. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

BCN - BUILDING CONSTRUCTION

BCN 2272 Blueprint Reading
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

The reading of construction blueprints is a foundational skill in construction. All construction professionals, regardless of specific profession, must know how to read blueprints. Course provides foundational knowledge and enough practice at reading blueprints to give a basic understanding as well as the requirements for the GC Exam. Students are required to purchase a set of scales: architectural and engineering.

BCN 2405 Statics and Strength of Materials
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Analysis and strength of structural elements for buildings, bridges and specialized structures that utilize steel and timber and concrete. Covers the statics of particles, rigid bodies, friction, strengths of materials such as wood, steel and concrete.

BCN 3281C Construction Survey and Building Layout
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Application of surveying skills required in the field of construction, including building layout, indirect determination of elevation and distance, referencing, establishment of grade, and topographic mapping. Instruments used will include transit and automatic level. Credit cannot be received for both BCN 3281C and BCN 3282C.

BCN 3502 Plumbing and Drainage
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Includes water demand design, refuse systems, codes, distribution systems, drainage principles, drainage design, storm drainage systems and community and private sewage disposal. Methods of water treatment and cost estimating are discussed. Principles of hydraulics and pneumatics and the installation of plumbing and drainage systems are discussed.

BCN 3561 Construction Mechanics I
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Introduces building mechanical and electrical system basics and related equipment. Areas of study included are heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting.

BCN 3590 Sustainable Construction
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Sustainable construction knowledge is fast becoming a requirement in construction-related industries. Organizations and resources available to prepare and apply the practices, initiatives, materials, and theories of the practices of green building will be explored. Preparatory lectures for the LEED Professional Accreditation Exam.

BCN 3731 Construction Safety
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Principles of safety in typical industrial and construction environments.

BCN 3762 Building Codes
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

An on-line course that covers the general requirements of the Florida Building Code for commercial construction, based on occupancy classification and construction type.

BCN 3767 CDT Prep Course: Construction Documents
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Preparation for the National Construction Specification Exam for Construction Document Technician certification. Material and Supply fee will be assessed.

BCN 4431 Structures
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: BCN 2405

Analysis and design of structural elements for buildings, bridges and specialized structures which utilize steel and timber. Includes the evaluation of beam sheer, deflection, bearing and moment, plus column behavior, along with their connectors for both steel and timber, including laminates and plywood.

BCN 4461 Soils, Concrete, and Masonry
Department: Engineering and Computer Technology
3.0 sh (may be repeated for up to 0.0 sh of credit)
Prerequisite: BCN 4431

Analysis and design of concrete elements as related to construction, including forms, formwork design and form materials. Examination of reinforced concrete strength design methods as well as codes and safety as they apply to concrete structures.

BCN 4564 Construction Mechanics II
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: BCN 3561

Examination of heating, ventilating, air conditioning (HVAC), plumbing and piping systems, fire protection, electrical equipment and systems, electrical design and lighting. A construction site visit is included.

BCN 4701 Construction Administration
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Overview of the construction industry and professional requirements of management, administration and project management in construction environments. Consideration of information required to sit for the contractor's examination.

BCN 4720C Scheduling
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: BCN 4701 and MAN 3583

Scheduling for construction project management is a critical skill in construction. An overview of scheduling techniques, applications, and software packages available; Primavera, a scheduling software package, will be used.

BCN 4940 Construction Internship/Senior Project
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Field-based experience where students work in real-world situations with industry professionals. Permission is required.

BOT - BOTANY

BOT 1801 Introduction to Plant Science
Department: Biology
3.0 sh (may not be repeated for credit)

Survey of economically important plants, especially those used for food, lumber, medicines, fibers, dyes, or certain extracts. Special topics discussed include plant propagation, origins of agriculture, genetic engineering, plant management and conservation, folk medicine, tissue culture, and ornamental plants. (General Studies Course: NS/LEC)

BOT 2010 General Botany
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: BOT 2010L

Introduction to the basic concepts which apply to all plants including cell theory, biosynthetic processes, physiological response, development and reproduction, as well as consideration of plant morphology, systematics and evolution. Material and supply fee will be assessed for corresponding lab. (General Studies Course: NS/LEC)

BOT 3601 Plant Ecology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: PCB 4043
Co-requisite: BOT 3601L

Terrestrial vegetation will be investigated from three perspectives: geographic distribution, plant communities and individual species ecology. Plant communities of the Southeastern U.S. will receive special emphasis through lectures, an intensive field study, local field work and an optional extended field trip. Several contrasting theories of the plant community will be explored and tested. Material and supply fee will be assessed for corresponding lab.

BOT 4374 Plant Developmental Biology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 4374L

Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5376; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 4404 Aquatic Botany
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: BOT 4404L

Morphology, taxonomy, physiology and ecology of aquatic plants, especially freshwater and marine algae. Material and supply fee will be assessed for corresponding lab.

BOT 4406 Marine Algae
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 4406L

Physiology, ecology, reproduction, and taxonomy of marine algae categorized as phytoplankton, periphyton, and seaweeds. Experimental evidence for effects of sea environment on algal abundance, diversity, distribution, and competition and direct experience with field and lab

techniques, data analysis and manuscript writing. Electronic enhancement used. Material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 5407; graduate students will be assigned additional work.

BOT 4503 Plant Physiology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or ZOO 1010
Co-requisite: BOT 4503L

Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 5506; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 4712 Plant Taxonomy and Evolution
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: BOT 4712L

An in-depth analysis of the evolutionary origins and taxonomic radiation of land plants from both diagnostic and theoretical perspectives. Local field trips will be required. Each student will be expected to submit a collection detailing the taxonomic categories and outlining the techniques and tools mastered in the process. A three-day field trip may be offered. Material and Supply Fee will be assessed for corresponding lab.

BOT 4734 Plant Biotechnology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 4734L

Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and reinforces the principles presented in lecture. Material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 5735; graduate students will be assigned additional work.

BOT 4850 Medicinal Botany
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010

Pharmacognosy, the knowledge of drugs, grew out of the old herbal remedies passed down by tradition. Plant natural products continue to form the basis of many new therapeutic treatments in modern and alternative medicines. Provides a survey of phytochemicals that have proven useful for improving human health beyond the basic use of plants as a food source. Offered concurrently with BOT 5852 graduate students will be assigned additional work.

BOT 5376 Plant Developmental Biology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 5376L

Examines the succession of changes that occurs in plants as they progress from a simple embryo to a complex mature plant and through senescence. Plant growth, differentiation, organogenesis, morphogenesis, and environmental influences such as light, temperature, and gravity will be explored emphasizing the cellular and molecular events that control developmental processes. The accompanying laboratory features experiments selected to demonstrate and reinforce important principles discussed in lecture. Offered concurrently with BOT 4374; graduate students will be assigned additional work. Material and Supply fee will be assessed to corresponding lab.

BOT 5407 Marine Algae
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: BOT 5407L

Physiology, ecology, reproduction, and taxonomy of marine algae categorized as phytoplankton, periphyton, and seaweeds. Experimental evidence for effects of sea environment on algal abundance, diversity, distribution, and competition and direct experience with field and lab techniques, data analysis and manuscript writing. Portion electronically enhancement used. Evaluation of scientific literature expected. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with BOT 4406; graduate students will be assigned additional work.

BOT 5506 Plant Physiology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or ZOO 1010
Co-requisite: BOT 5506L

Examines the basic physiological and biochemical processes that determine and govern plant function. Topics include photosynthesis, mitochondrial metabolism, energetics, transport systems, water relations, cell walls, phytohormones, gene expression, and selected aspects of secondary plant metabolism. The accompanying laboratory features experiments selected to demonstrate and reinforce

important principles discussed in lecture. Offered concurrently with BOT 4503; graduate students will be assigned additional work. Material and supply fee will be assessed for corresponding lab.

BOT 5735 Plant Biotechnology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010
Co-requisite: BOT 5735L

Provides students with a foundation in the molecular biology and genetic manipulation of plants. Model plant systems are used to illustrate current concepts and methodologies used in a modern plant biotechnology laboratory. Case studies illustrate commercial applications of products derived from plant biotechnology and introduce students to ethical issues arising from the use of plant biotechnology. The accompanying laboratory provides students with the opportunity to perform basic manipulations required in a plant biotechnology laboratory and re-enforces the principles presented in lecture. A material and supply fee will be assessed for corresponding lab. Offered concurrently with BOT 4734; graduate students will be assigned additional work.

BOT 5852 Medicinal Botany
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010

Pharmacognosy, the knowledge of drugs, grew out of the old herbal remedies passed down by tradition. Plant natural products continue to form the basis of many new therapeutic treatments in modern and alternative medicines. Provides a survey of phytochemicals that have proven useful for improving human health beyond the basic use of plants as a food source. Offered concurrently with BOT 4850; graduate students will be assigned additional work.

BSC - BIOLOGICAL SCIENCES

BSC 1005 General Biology for Non-Majors
Department: Biology
3.0 sh (may not be repeated for credit)

Survey of abiotic and biotic principles as they apply to basic structural and functional topics at the cellular, organismal, population and community levels; and the application of these principles to issues of current interest. (General Studies Course: NS/LEC)

BSC 1005L General Biology Laboratory for Non-Majors
Department: Biology
1.0 sh (may not be repeated for credit)

Lab correlating with BSC 1005. Material and Supply Fee will be assessed. (General Studies Course: NS/LAB)

BSC 1050 Fundamentals of Ecology
Department: Biology
3.0 sh (may not be repeated for credit)

Intended for non-majors who have an interest in nature and how they interact with nature. Gives general overview of ecological principles and how these principles influence the outside world around us. Imbedded are several activities that are associated with each chapter. The activities were developed so that the student will gain a respect for ecology as well as show how ecological principles affect your daily life. (General Studies: Natural Sciences, Lecture).

BSC 1085 Anatomy and Physiology I
Department: Biology
3.0 sh (may not be repeated for credit)

General introduction to form and function of the human body. Review of basic anatomical/physiological attributes of integumentary, skeletal, muscular, nervous and sensory organ systems. Designed for students with little or no previous anatomy or physiology experience. Lab optional. (General Studies Course: NS/LEC)

BSC 1085L Anatomy and Physiology I Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Co-requisite: BSC 1085

Optional lab associated with course. Anatomical dissection and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. (General Studies Course: NS/LAB) Material and supply fee will be assessed.

BSC 1086 Anatomy and Physiology II
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BSC 1085

Continuation of Anatomy and Physiology I. Reviews basic anatomical/ physiological attributes of endocrine, cardiopulmonary, digestive, reproductive and immune systems. Lab optional. (General Studies Course: NS/LEC)

BSC 1086L Anatomy & Physiology II Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Prerequisite: BSC 1085, BSC 1085L
Co-requisite: BSC 1086

Optional lab associated with course. Anatomical dissections and experimental physiology exercises that enhance understanding of human form and function. Exercises parallel topics presented in the lecture series. (General Studies Course: NS/LAB) Material and supply fee will be assessed.

BSC 2311 Introduction to Oceanography and Marine Biology
Department: Biology
3.0 sh (may not be repeated for credit)

An introduction to the chemical, physical and geological features of the world ocean and the major groups of living marine organisms that inhabit it. Physical chemical and biological interrelationships will be emphasized. Credit not granted toward a major in Biology. (General Studies Course: NS/LEC)

BSC 2311L Introduction to Oceanography and Marine Biology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Co-requisite: BSC 2311

Lab correlating with BSC 2311. Credit not granted toward a major in Biology. (General Studies Course: NS/LAB) Material and supply fee will be assessed.

BSC 3401C Introduction to Forensic Biology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BSC 1005

Students will be exposed to biological evidence they are likely to encounter in their professional activities as a criminal investigator and introduced to some of the techniques used to analyze biological materials. Topics include hair and fiber, blood/body fluid, pollen, pigments, insects, and DNA analysis. Mock crime scenes will be used to introduce various topics and emphasize the need to properly collect and preserve physical evidence in a manner that will permit the laboratory to extract as much additional information as possible from the material. Not open to Biology majors as part of their degree program. Material and Supply fee will be assessed.

BSC 3948 Service Learning Field Study II
Department: Biology
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours per week must be done at the field site per semester hour of credit. Permission is required.

BSC 3949 Cooperative Education
Department: Biology
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education) Permission of director of Cooperative Education is required. Graded on satisfactory/unsatisfactory basis only.

BSC 4263 Biological Oceanography
Department: Biology
3.0 sh (may not be repeated for credit)

Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physiochemical properties of the pelagic realm. Offered concurrently with BSC 5265; graduate students will be assigned additional work.

BSC 4303 Biogeography
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010, BOT 2010L or ZOO 1010, ZOO 1010L.

Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 5305; graduate students will be assigned additional work.

BSC 4307 Climate Change Biology
Department: Biology
3.0 sh (may not be repeated for credit)

Natural processes and anthropogenic activities that are key forces in initiating and determining changes in Earth's environment on regional and global scales. An overview of Earth's dynamic environmental history relative to the biosphere, including methods used to reconstruct past climates and detect current trends; apparent and potential impacts of recent climate change and ozone depletion on organisms and ecosystems with perspectives on future predictions and modeling efforts. Offered concurrently with BSC 5308; graduate students will be assigned additional work.

BSC 4430 Ethical Issues in Biotechnology
Department: Biology
3.0 sh (may not be repeated for credit)

Designed for Senior and Graduate students. It provides an opportunity for students to interweave philosophical and biological principles on the ethical issues involved in Biotechnology. A major concern through the use of various

clinical illuminators and laboratory experience is the application of theory to practice. Offered concurrently with BSC 5438; graduate students will be assigned additional work.

BSC 4434 Introduction to Bioinformatics
Department: Biology
3.0 sh (may not be repeated for credit)

A molecular renaissance in biology has produced a wealth of sequence and three-dimensional structure databases. "Mining" of these data with various computational methods to obtain useful information is an emerging interdisciplinary area of study. Students will review structure, function and evolution of proteins and nucleic acids as well as the latest computational methods for retrieval and interpretation of this bioinformation. Offered concurrently with BSC 5459; graduate students will be assigned additional work.

BSC 4854 Bioterrorism
Department: Biology
3.0 sh (may not be repeated for credit)

Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries/groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact, will be discussed and played out. Government preparedness to deal with biowarfare/bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 5856; graduate students will be assigned additional work.

BSC 4941 Clinical Experience in Health Care
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: Junior status

Clinical experience in select health care locations within the region through Memoranda of Understanding (MOU) established with UWF and Biology. Permission process includes an interview conducted by the target health care entity to ensure expectations of student and health care entity will be met. Students will be expected to invest a minimum of 12 hrs/week on the project during the semester in which they are enrolled. A final report on the project(s) will be submitted. Permission is required.

BSC 4949 Cooperative Education
Department: Biology
0.0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Must be a master level student and permission of director of Cooperative Education is required.

BSC 5265 Biological Oceanography
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: BSC 5265L

Biota of the oceans, including systematics, special morphological adaptations, physiology, natural history and zoogeography of plankton and nekton. Relationship between biota and the physiochemical properties of the pelagic realm. Required lab. Offered concurrently with BSC 4263; graduate students will be assigned additional work.

BSC 5305 Biogeography
Department: Biology
3.0 sh (may not be repeated for credit)

Relates the principles of taxonomy, ecology and evolution to the distribution of plants and animals. Codes of taxonomic nomenclature and the processes of describing species and ranges, species concepts and speciation, paradigms of constructing phylogenies, a review of the geologic ages of the earth, modern terrestrial and oceanic biodiversity and biogeographic provinces and human impact on species extinctions and introductions. Offered concurrently with BSC 4303; graduate students will be assigned additional work.

BSC 5308 Climate Change Biology
Department: Biology
3.0 sh (may not be repeated for credit)

Natural processes and anthropogenic activities that are key forces in initiating and determining changes in Earth's environment on regional and global scales. An overview of Earth's dynamic environmental history relative to the biosphere, including methods used to reconstruct past climate changes and detect current trends; apparent and potential impacts of recent climate change and ozone depletion on organism and ecosystems with perspectives on future predictions and modeling efforts. Offered concurrently with BSC 4307; graduate students will be assigned additional work. Credit may not be received in both BSC 5308 and BSC 4307.

BSC 5438 Ethical Issues in Biotechnology
Department: Biology
3.0 sh (may not be repeated for credit)

Designed for Senior and Graduate students. It provides an opportunity for students to interweave philosophical and biological principles on the ethical issues involved in Biotechnology. A major concern through the use of various clinical illuminators and laboratory experience is the application of theory to practice. Offered concurrently with BSC 4430; graduate students will be assigned additional work.

BSC 5459 Introduction to Bioinformatics
Department: Biology
3.0 sh (may not be repeated for credit)

A molecular renaissance in biology has produced a wealth of sequence and three-dimensional structure databases. "Mining" of these data with various computational methods to obtain useful information is an emerging interdisciplinary area of study. Students will review structure, function and evolution of proteins and nucleic acids as well as the latest computational methods for retrieval and interpretation of this bioinformation. Offered concurrently with BSC 4434; graduate students will be assigned additional work.

BSC 5856 Bioterrorism
Department: Biology
3.0 sh (may not be repeated for credit)

Biological weapons employed against man (emphasis), animals and plants will be discussed during the semester. The major biological agents targeted for use as weapons against humans will be dealt with in detail including the various clinical forms induced by exposure to the agents, prophylaxis and treatment for the resulting diseases and the primary routes of dissemination of the agents studied. The class will cover the potential for biowarfare/bioterrorist acts, how destruction is produced, and what countries/groups have access to sufficient bioagent or the capacity for producing large quantities of biological agents for use as a weapon. Wargames in which bioagents are employed, including casualty estimates and socioeconomic impact, will be discussed and played out. Government preparedness to deal with biowarfare/bioterrorism will be addressed with emphasis on plans for surveillance and response. Offered concurrently with BSC 4854; graduate students will be assigned additional work.

BSC 6002L Contemporary Laboratory Skills
Department: Biology
4.0 sh (may not be repeated for credit)

A review of contemporary laboratory protocols and techniques necessary for the modern biologist to succeed in the professional, academic, or intellectual biology community. Provides students with a theoretical understanding of various techniques, their application, and the opportunity to master basic essential techniques in the laboratory. Topics include good laboratory practices, cell culture techniques, nucleic acid manipulation, macromolecular separation and detection, DNA analysis, chromatographic separations, spectrophotometry, microscopy, and radioisotope usage. Material and Supply Fee will be assessed.

BSC 6018 Instructional Methods in Biology
Department: Biology
3.0 sh (may be repeated for up to 6.0 sh of credit)

Students in the post-secondary track of the MST in Biology degree must complete 6sh of this course. During the first semester, the student will serve as Teaching Assistant and will design, present and orchestrate at least six laboratory exercises and will design and correct all lab quizzes and exams. During the second semester the student will serve as Instructor of Record and will be responsible for design and execution of all lab exercises, lab lectures, quizzes, exams, and grading, and will design and present three lectures in the lecture section of the course. Permission is required.

BSC 6329 Coastal Studies Seminar
Department: Biology
1.0 sh (may not be repeated for credit)

Capstone seminar in coastal studies. Provides independent study and interdisciplinary experience.

BSC 6415 Pharmaceuticals: Development, Manufacturing and Testing
Department: Biology
3.0 sh (may not be repeated for credit)

Provides an understanding of the development, manufacturing and testing of pharmaceuticals. The drug development cycle, basic experimental design in the pharmaceutical sciences, FDA issues related to pharmaceuticals, regulations and reports in the development/manufacturing/testing of pharmaceuticals, project management in clinical trials and standards for postapproval changes in pharmaceuticals will be covered.

BSC 6840 Professional Development in Biology
Department: Biology
3.0 sh (may not be repeated for credit)

A review of contemporary protocols, techniques, and methods needed to succeed in the professional, academic, or intellectual biology community. Topics include 1) organization of the professional and academic biology environment, 2) reading, interpreting, organizing and publishing biological literature, 3) biological project development, presentation, and funding, 4) locating and securing positions in the biological sciences.

BSC 6841 Advances in Biomedical Sciences
Department: Biology
3.0 sh (may not be repeated for credit)

Covers current regional, state, national and international advances in biomedical sciences and implications for current and future health care. Lectures cover recent topics in this area followed by expansion of the information through written assignments for students. Each student will be expected to research through primary literature a series of selected topics and provide a report which will include an assessment of the impact of these discoveries on health care and the potential for fueling additional advancements in the biomedical sciences. Permission is required.

BSC 6941 Internship in Biomedical/Pharmaceutical Industry
Department: Biology
6.0 sh (may not be repeated for credit)
Prerequisite: HSC 6000

The student will be placed with a regional biotech/biomed/pharmaceutical company where they will be assigned to a lower or middle-level administrator and be engaged in the daily conduct of business in the industry. The industry mentor, in consultation with the faculty advisor, will assign a specific project to the student which engages information from one or more of the topics covered in the Professional Development course which must be completed in the time allotted. The student will be required to produce a written report describing their project and the project outcome in which they draw and defend conclusions and make and defend recommendations. Student performance will be assessed by the industry mentor in cooperation with the faculty advisor.

BSC 6971 Thesis
Department: Biology
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

BUL - BUSINESS LAW

BUL 3130 Legal Environment of Business
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)

Background of law and legal environment of business, including administrative, social, political and ethical aspects. Coverage of law includes contracts, sales under Uniform Commercial Code, negotiable instruments and personal and real property.

BUL 4602 Legal Fundamentals of Healthcare and Public Health
Department: Accounting & Finance
3.0 sh (may be repeated for up to 6.0 sh of credit)

An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public's health is examined with an analysis public health authority. A general overview of the laws controlling the provision of private sector healthcare including industry and professional regulation, prohibited payment schemes, Bioethics, end-of-life issues, informed medical consent, and patient privacy. Offered concurrently with BUL 5605; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.

BUL 5605 Legal Fundamentals of Healthcare and Public Health
Department: Accounting & Finance
3.0 sh (may be repeated for up to 6.0 sh of credit)

An overview of the laws most affecting the provision of healthcare and public health practices. The legal basis for government involvement in the public's health is examined with an analysis public health authority. A general overview of the laws controlling the provision of private sector healthcare including industry and professional regulation, prohibited payment schemes, Bioethics, end-of-life issues, informed medical consent, and patient privacy. Offered concurrently with BUL 4602; graduate students will be assigned five review articles in the subject area and tested separately over this material. In addition, graduate students will be assigned a topic on legal issues in public health which they will present before the class for discussion. They will provide conclusions and recommendations related to this topic and defend their position.

BUL 5831 Commercial Law
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: BUL 3130

Study of selected topics in law pertaining to business transactions, business environment and associations, and financial securities.

CAP - COMPUTER APPLICATIONS (FOR COMPUTER SCIENTISTS)

CAP 3028 Introduction to Computer Game Programming (Graphic Symbols and Animations)
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CGS 2570

Design and implementation of various elements of computer game programming with popular commercial software. Includes creation and manipulation of graphics and text symbols which include masking, transformations, use of different types of animations such as frame by frame

animation, shape tweening, motion tweening and streamline animation to promote visually attractive movie clips. Upon completion of the course, students will be able to design and develop an interactive adventure game.

CAP 4029 Game Programming 2
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CAP 3028

Design and implementation of various elements of 3D computer game programming with popular commercial software. Includes creation, manipulation, and rendering of 3D graphics and text symbols. Object oriented design of games, GUI for games, and role of finite state machines in game development will be discussed. A discussion on game modeling will also be included.

CAP 4033C 3D Modeling and Animation
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or COP 2830

Introduction to basic principles of 3D modeling and animation. Students use popular commercial software to create 3D models and animation. Students will be introduced to aspects of 3D modeling and animation which include working with objects, models, textures, lighting, particle effects and rendering. Permission is required.

CAP 4053 AI Programming for Interactive Environments
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CAP 4601

Introduction to the use of AI programming for the development of interactive environments including games and educational environments. Fundamental AI implementation techniques including agent-based architectures, learning algorithms, and path-finding algorithms.

CAP 4601 Artificial Intelligence
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4412 and COP 4331

Introduction to Artificial Intelligence principles and techniques. Students will learn about core AI techniques for solving complex problems, including search strategies, knowledge-based techniques, and agent-based systems. Overview of AI topics such as intelligent agents, machine learning, as well as AI applications.

CAP 4770 Data Mining
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710

Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining and decision tree induction. Offered concurrently with CAP 5771; graduate students will be assigned additional work.

CAP 5600 Introduction to Artificial Intelligence
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4020, COT 4400

Introduction to basic Artificial Intelligence theories and methods for solving complex and difficult problems using computers; goal- oriented procedures, search problems, knowledge representation and machine learning. Topics will include intelligent systems such as expert systems, intelligent agents and robots. Will be conducted within a cognitive science framework.

CAP 5771 Data Mining
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710 or COP 5725

Exposes students to data mining concepts and techniques and different data mining software. Covers data preprocessing and cleaning, concept hierarchy generation, attribute relevance analysis, association rule mining, decision tree induction, bayesian classification and prediction, and cluster analysis. Offered concurrently with CAP 4770; graduate students will be assigned additional work. Students who have taken CAP 4770 cannot earn credit for this course.

CAP 5837 Computer Simulation and Modeling
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 4321; COP XXXX (Any Course in Programming).

Application of discrete event system simulation to the solution of complex problems. Techniques of modeling real world events through probability and logic. Mathematical basis for random variable generation and statistical analysis of model reliability. Comparison and application of several simulation languages as well as simulating events using typical computer languages.

CBH - COMPARATIVE PSYCHOLOGY AND ANIMAL BEHAVIOR

CBH 5255 Comparative Behavior and Cognition
Department: Psychology
3.0 sh (may not be repeated for credit)

Comparison of behavior and cognition across a broad range of animal species. Includes phenomena, principles, mechanisms, theories, and research techniques. Applications

of evolutionary theory emphasized and implications for humans explored. Some lab/field work may be required.

CCJ - CRIMINOLOGY AND CRIMINAL JUSTICE

CCJ 2002 Survey of Crime and Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Provides an introduction to the issues of crime and justice in the United States. Discusses the complexities of studying crime and evaluates the role of various criminal justice subsystems. (General Studies Course: SS/BEH)

CCJ 2948 Service Learning Field Study I
Department: Criminal Justice and Legal Studies
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours per week must be done at the field site per semester hour of credit. Permission is required.

CCJ 3014 Criminology
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 3024
Co-requisite: CCJ 3024

Examines the causes, types, and patterns of crime in society. Major schools of thought and current research are introduced, compared, and contrasted in the study of crime and its social context.

CCJ 3024 American Justice System
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Introductory analysis of the American justice system. Structure, organization and process of the justice system, the roles and responsibilities of justice professionals, and the dynamics of the justice system in a democratic society.

CCJ 3060 Ethics and the Justice System
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Identification and analysis of ethical issues in the American justice system.

CCJ 3450 Criminal Justice Management and Organization
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Acquaints student with the basic management processes affecting criminal justice agencies, develops the student's ability to analyze management problems and apply effective interventions to those problems in police departments, courts, and corrections agencies.

CCJ 3654 Substance Abuse and the Offender
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Addresses the biological, psychological, and social elements of substance abuse and treatment for defendants within the criminal justice system. Provides a comprehensive critical analysis of the social and psychological issues of substance abuse including theories of causation and treatment.

CCJ 3666 Victimology
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

The study of the interrelationships between crime, criminals, victims, and the criminal justice system. Areas of emphasis include victim's rights, restorative justice, as well as the psychological, financial, and medical needs and problems of the victim.

CCJ 3678 Race, Gender, Ethnicity, and Crime
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Analysis of the demographic state of affairs in criminal justice in the United States. Designed to elicit discussion regarding the interrelationships between race, gender, ethnicity, and the criminal justice system. Meet Multicultural Requirement.

CCJ 3691 Sex Offenses and the Offender
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Comprehensive overview of psychological, sociological and legal issues related to sex offenses. Additionally, the sexual offenders and different typologies of the sex offender will be discussed.

CCJ 3948 Service Learning Field Study II
Department: Criminal Justice and Legal Studies
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the

setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours per week must be done at the field site per semester hour of credit. Permission is required.

CCJ 4026 Contemporary Issues in Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examines the nature and extent of crime in modern Western society. Emphasis placed on issues selected from, but not limited to, emerging patterns of violence, organized crime, white-collar crime, victimless crime, corruption, and those crime strategies deemed appropriate in a democracy. Credit may not be received in both CCJ 4026 and CCJ 4002.

CCJ 4036 Behavioral Science and the Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Addresses topics in the field of forensic psychology, public policy and the law. Selected issues will include: competency to precede, insanity at the time of the alleged offense, malingering, psychopathy, domestic violence, prediction of violence, false confession/police deception, sexual violence, civil commitment, sexual predator laws, including the Jimmy Ryce Act.

CCJ 4075 Crime Analysis
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 3024
Co-requisite: CCJ 3024

Introduces students to the analytical processes of identifying crime trends and patterns, forecasting future events, identification of suspects and use of crime data to assist law enforcement officers. Also reviews other key concepts of investigative, intelligence and operational analysis.

CCJ 4107 Crime and Public Policy
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

An introduction to the public policy making process. Offers an overview of the formation, implementation, quantitative, and qualitative evaluation, and ethical aspects of policy making.

CCJ 4141 Restorative Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Introduces the philosophy of restorative justice. Students critically analyze and compare retributive justice with restorative justice. Explores various restorative justice methodologies and evaluation of those methodologies. Hands on instruction in the use of restorative practices will be given.

CCJ 4644 White Collar Crime
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Considers the question "what is white-collar crime?" and the implications associated with enforcement of laws related to white-collar criminality, investigation and prosecution of such offenses and sentencing of white-collar offenders. Various forms of white-collar crime will be examined and illustrated through case studies and research, including estimates of cost, victim and offender profiles, and legal issues. Examines theoretical explanations for white-collar crime and questions of corporate liability.

CCJ 4700 Research Design in Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 3024

Designed to give students an understanding of the basic principles and practices of empirical research as they are practiced in criminal justice and to enhance students' critical thinking skills with respect to criminal justice programs and proposals. (Gordon Rule Course: Wrtg).

CCJ 4701 Data Analysis in Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 4700

An introduction to some of the major data analysis techniques currently in use among social scientist. Connects research design and methodology with statistical applications. Students will use SPSS statistical software to create databases and analyze data.

CCJ 4931 Special Topics in Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may be repeated for up to 12.0 sh of credit)

The study of special issues in criminal justice. Subject matter will vary each semester to reflect an in-depth study of particular issues (e.g. gangs) or fields of criminology (e.g. corrections and theories of punishment) being examined. This includes grounding course content in criminological theory, as well as related theoretical frameworks. Credit may be received in both CCJ 4931 and CCJ 4391 up to 9 hours.

CCJ 4940 Criminal Justice Internship
Department: Criminal Justice and Legal Studies
1.0-6.0 sh (may be repeated for up to 9.0 sh of credit)

Internship in field of criminal justice intended to give field observation and experience. Permission of undergraduate coordinator and 3-6 sh career experience required. Graded on satisfactory/ unsatisfactory basis only.

CCJ 5006 Criminal Justice Administration
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Focuses on the principles of organization, administration, and function of criminal justice agencies. These agencies include law enforcement, the courts, and corrections. Includes an examination of management approaches and problems in criminal justice, including the planning and evaluation techniques and the use of information systems.

CCJ 5008 Criminal Justice Theory
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Analyzes the theoretical perspectives associated with the policies, organizations, decisions, and operations of criminal justice systems, agencies, and individuals. Examines classical and contemporary research in criminal justice.

CCJ 5018 Crime and Public Policy
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Analysis of various policy initiatives designed to reduce the level of crime. Applies elements of criminological theory and research methods to critically evaluate the effectiveness of policies.

CCJ 5496 Critical Analysis of Justice Administration
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

A detailed survey of the government agencies involved in the administration of the American criminal justice system. An overview of the processes of the justice system from entry to exit of criminal defendants. Evaluation of organizational performance in justice agencies and the critical analysis of the public policies they promulgate.

CCJ 5669 Race, Ethnicity, Gender, and Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Dissects the pervasive links between crime, justice, race, ethnicity, and gender. Analyzes the challenges posed by rendering justice in a multicultural society.

CCJ 6020 Criminal Justice and the Juvenile
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Explores the nature and extent of juvenile delinquency. Topics related to the juvenile justice system and the process, such as juvenile waver to the adult court, diversion and deinstitutionalization, police interaction, and community intervention.

CCJ 6061 Criminological Theory
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examines criminological theories with emphasis on the origins and applications of relevant theoretical approaches to crime and criminally deviant behavior. Addresses theoretical concepts and propositions of most (though not all) of the major criminological theories, the related empirical research that has tested these theories, and the corresponding policy implications.

CCJ 6145 Restorative Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examines the principles of restorative justice from a critical perspective. A restorative justice approach is utilized to gain insight into contemporary criminal justice practice and policies.

CCJ 6427 Issues in Contemporary Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

An in-depth study of issues confronting 21st Century criminal justice systems. Topics include those associated with current events and controversies.

CCJ 6704 Research Methodology
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Issues related to research methods and data analysis as they are applied in the field of criminal justice and criminology. What constitutes scientifically acceptable inquiry and how to conduct empirical research.

CCJ 6705 Analysis of Quantitative and Qualitative Data
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Methods and techniques for diagnostics, management, and analysis of data in both quantitative and qualitative nature. Statistical theory and research design issues along with hands-on computer experience using computerized statistical programs such as SPSS.

CCJ 6745 Policing and Society
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Analysis of classical and contemporary readings that examine the unique position, organization, and challenges of policing a complex society. Also explores the future of policing.

CCJ 6910 Criminal Justice Area Paper
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 6704

Under the direction of the faculty, the student prepares a comprehensive analysis of a topic within criminal justice. The paper will include a critical and comprehensive review of the literature related to the chosen topic. The paper may include a research proposal and/or presentation of research findings.

CCJ 6930 Seminar: Special Topics in Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may be repeated for up to 12.0 sh of credit)

Designed to provide students with specialized knowledge in a particular field of criminal justice such as juvenile justice/ corrections or on a cutting edge topic of relevance to criminal justice practitioners such as restorative justice or homeland security.

CCJ 7715 Applied Research Project II
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 6704 and CCJ 6910

Provides students the opportunity to implement the criminal justice research prospectus designed in CCJ 6910: Applied Research Project I. Students make a virtual or in-person presentation of the findings to the department faculty.

CDA - COMPUTER DESIGN/ARCHITECTURE

CDA 3101 Introduction to Computer Organization
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or EEL 4834
Co-requisite: CDA 3101L

Introduction to the organization and operation of a digital computer including the internal representation of data and instructions, processor design and execution along with bus and I-O subsystems and assembly language programming.

CDA 6158 Advanced Computer Architecture
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CDA 3100

An analysis of the design of modern computer systems including pipelining, array processors, memory hierarchies with caching, bus control and I/O control. Discussion of alternate architectures: tightly and loosely coupled multiple processor systems, single- and multiple-instruction streams. Distributed systems. Illustrations using existing micro, mini, mainframe and parallel computers.

CDA 6415 Advanced Computer Systems
Department: Computer Science
4.0 sh (may not be repeated for credit)

Examines current advancements in computer hardware, the operating systems facilities required for those advances, and the programming practices needed to take advantage of them. Topics include pipelined, hyperthreaded and multicore processors, scheduling algorithms, cache, memory management, and nontraditional hardware. Permission is required.

CEN - COMPUTER ENGINEERING

CEN 3031 Software Engineering I
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253

Preparation of software planning, specifications, design, coding, testing and maintenance. Familiarization with the team approach to large software system development with an emphasis on the early part of the software lifecycle.

CEN 3032 Software Engineering II
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 3022 or COP 3411; CEN 3031 and CIS 3512.

Small team development of different software components that are then integrated into a complete software system. Emphasis on the later part of the software lifecycle.

CEN 4053 Software Engineering Management
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CEN 3032

Reviews concepts and principles related to the management of software development and evolution projects.

CEN 4340C IT Infrastructure Planning, Acquisition, and Integration
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or COP 2830

A systematic examination of the hardware and software analysis and design or information technology systems. Acquisition of assets for integration into a new or existing infrastructure. Explores what makes IT projects different from other types of systems and how the principles and methods of system development can be integrated to define the IT system. Topics include hardware and software system implementation, information assurance, hardware and software catastrophe recovery, hardware and software configuration management, software license knowledge and monitoring, system hardware and software infrastructure

support, infrastructure environmental concerns, and data and system integration.

CEN 4400 Introduction to Operations Research
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311 or MAC 2233; STA 2023 or STA 4321.

Introduction to methodology and mathematical techniques of operations research, a scientific approach to problem solving and decision-making for executive management. Topics include linear programming, inventory theory, queuing theory, simulation and PERT-CPM, with emphasis on computer application. Some experience with computer programming is required.

CEN 4721 Human-Computer Interaction
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduces students to the design of the interaction between people and computers. It will give students insight and experience in key issues of HCI design, and will sample different areas related to human-computer interaction. In class and in discussion sections, students will discuss issues and tradeoffs in interaction design, propose effective designs, and evaluate alternative solutions to design problems.

CEN 4910 Undergraduate Computer Science Research
Department: Computer Science
1.0-4.0 sh (may be repeated for up to 7.0 sh of credit)

Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CEN 5915 Graduate Computer Science Research
Department: Computer Science
1.0-4.0 sh (may be repeated for up to 4.0 sh of credit)

Graduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meet regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report is required upon completion of the course. Can be used for research leading to master's thesis. Permission is required.

CEN 6015 Software Engineering Project
Department: Computer Science
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: CEN 6064, CEN 6070, CEN 6075

Capstone course in the masters program in Software Engineering. Normally students take 3sh in each of two consecutive semesters for a total of 6sh. Focuses on the concepts of Software Engineering Process and Software Process Maturity. Lectures and student seminar presentations explore current best practices in these areas. The team project normally involves maintaining and enhancing an existing software system while following a detailed defined software process. Teams usually consist of 12-15 students, with each team member having different responsibilities as defined by the process. Occasionally, special individual projects can be arranged, provided that they are approved by the Department before the beginning of the first semester of registration. Not open to CS specialization graduate students. Permission is required.

CEN 6016 Software Engineering Process
Department: Computer Science
4.0 sh (may not be repeated for credit)

Review of current topics and trends in software engineering. Prominent software engineering approaches, methods, and processes (e.g., CMMI, Agile processes) are examined and compared. Culminates with a detailed study of one specific software engineering process.

CEN 6064 Software Design
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4601

Examination of the design principles/methodologies appropriate for developing complex software systems. Goals include comparative analysis of existing design methods, object-based design paradigms, and the extensions of modern design techniques and principles to the design of software with distributed implementations in mind.

CEN 6070 Software Testing and Verification
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CEN 3031, COP 4601.

Introduction to the main concepts and methods used to produce correct software. Focuses on software quality assurance through systematic software testing. Students learn to create test sets that exercise software to specified coverage standards and to conduct software inspections. Other verification and validation methods selected by the instructor are also introduced.

CEN 6075 Software Specification and Implementation
Department: Computer Science

3.0 sh (may not be repeated for credit)
Prerequisite: CEN 3031, COP 4601.

Study of the concepts and importance of software specification as an essential stage in the development of a software product. Students learn to prepare software specifications using both formal specification techniques and informal text-based specifications that follow a standard model.

CEN 6095 Software Engineering Practice and Tools
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: CEN 6016

Practicum course simulating best practices used in the software industry for maintaining software systems. Emphasis on the use of modern software methods and tools. Permission is required.

CEN 6930 Advanced Topics in Computer Software and Engineering
Department: Computer Science
3.0 sh (may not be repeated for credit)

Selected topics in computer software and engineering. Prerequisites will vary according to specific subject material to be covered.

CET - COMPUTER ENGINEERING TECHNOLOGY

CET 3135 Microcontroller Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: CET 2113C

Exploration of a wide range of topics in guiding students through real-time control software and interfacing, concentrating on applications of microcontroller.

CET 3135L Microcontroller Laboratory
Department: Engineering and Computer Technology
1.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105, EET 1015C, EET 1025C, EET 3504C
Co-requisite: CET 3135

Laboratory for CET 3135 Microcontrollers. Application of microcontrollers in various real-world settings.

CGS - COMPUTER GENERAL STUDIES

CGS 2XX0L Excursions in Computing Lab
Department: Computer Science
1.0 sh (may not be repeated for credit)

Computing experiments in a contemporary interactive environment. Experiments will reinforce the omnipresence of computing in society. General Studies Course (NS: LAB).

CGS 2060 Excursions in Computing
Department: Computer Science
3.0 sh (may not be repeated for credit)

Explore and understand the role of computing in today's highly technological world. Examine the effective and ethical use of computing technology to address general and specialized domains and practice project delivery deadlines involving this technology. Topics include: role of computing, recent advances in computer hardware, system software options, system connectivity, time management and presentation technology, tools for researching current technology, algorithms, and limits of computing ethics. (General Studies Course: NAT/LEC)

CGS 2570 Personal Computer Applications
Department: Computer Science
3.0 sh (may not be repeated for credit)

Internet Based online course, which provides practical experience with current popular microcomputer application packages. Students typically learn to use word-processing, spreadsheet, database software, and PowerPoint. Required for CIS majors but may not be taken for credit by CS majors.

CGS 3183 Web Design for E-Commerce
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CGS 2570 or CGS 3853

Introduces the student to the concepts and principles of designing software tools used in web applications for electronic commerce. The student will gain hands on experience in developing, manipulating, and implementing web tools for electronic transactions such as a web database and an electronic shopping cart. Credit may not be received in both CGS 3183 and CGS 3172.

CGS 3284 Network Management and Design
Department: Computer Science
12.0 sh (may not be repeated for credit)

Develops the skills required to successfully manage and troubleshoot the ongoing needs of Microsoft Windows 2000 and 2003 server-based operating system environments, including Windows.Net Server. May not be taken for credit by CS/CIS majors. Permission is required.

CGS 3464 Programming Using Visual Basic for Non-Majors
Department: Computer Science
3.0 sh (may not be repeated for credit)

An introductory course in programming for non-majors. Incorporates the basic concepts of programming,

programming logic and problem solving, as well as the design features of a visual, event driven language. Students will use a visual interface to program useful applications Assumes no prior computer knowledge. May not be taken for credit by CS/CIS majors.

CGS 3523 Computer Graphics Applications
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduces the student to concepts of computer graphics applications, including graphics capabilities of text processing systems, paint programs, scanning and digitizing, photo enhancing, 2 and 3 dimensional systems, video, animation, and Internet based resources with applications and demos of a variety of software packages. May not be taken for credit by CS/CIS majors.

CGS 3559 Exploring the Internet
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduces the student to the Internet, using the Internet itself as the main source of information. Tools, including World Wide Web browsers, mail programs and other electronic devices will be presented and used. At the end of the course the student should be able to recognize the extent, capabilities, advantages, and problems involving the Internet. May not be taken for credit by CS/CIS majors.

CGS 3604 Applications of Information Technology
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CGS 2570; either MAC 1105 or MAC 1140

Investigates current applications of information technology in business, scientific research, education, and media, and examines issues facing the information technology professional working in a variety of disciplines.

CGS 3853 Web Page Design
Department: Computer Science
3.0 sh (may not be repeated for credit)

Techniques for the creation of web sites that are flexible, scalable, and that take advantage of the World Wide Web. Topics include: FTP, HTML tags and web servers. Requires some research and project development. May not be taken for credit by CS/CIS majors. Credit may not be received in both CGS 3853 and CGS 3823.

CHI - CHINESE

CHI 1100 Chinese Language I
Department: International Education and Programs
3.0 sh (may not be repeated for credit)

An introduction to Mandarin, the official Chinese language. Designed for students with no previous knowledge of Chinese. Helps students obtain an adequate mastery of basic language skills in both spoken and written Chinese and develop a foundation for further study of the language.

CHM - CHEMISTRY

CHM 1020 Concepts in Chemistry
Department: Chemistry
3.0 sh (may not be repeated for credit)

Introduces the non-scientist to current and critical issues in chemistry. Readings from popular science publications. Discussion on topics such as polymers, radioactivity, toxic chemicals, energy, etc. Registration for the corresponding lab is encouraged but not required. (General Studies Course: NS/LEC)

CHM 1020L Concepts in Chemistry Lab
Department: Chemistry
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 1020
Co-requisite: CHM 1020

Introduction to laboratory safety, experimental techniques. Laboratory experiments on polymers, radioactivity, toxic chemicals, energy, etc. Material and supply fee will be assessed. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 1032 Fundamentals of General Chemistry
Department: Chemistry
3.0 sh (may not be repeated for credit)

A one semester course presenting an introduction to the principles of general chemistry. Designed for students majoring in sciences other than biology and chemistry. Cannot be used to satisfy major requirements in chemistry or biology. (General Studies Course: NS/LEC)

CHM 1032L Fundamentals of General Chemistry Laboratory
Department: Chemistry
1.0 sh (may not be repeated for credit)
Co-requisite: CHM 1032

Laboratory experiences illustrating the fundamental principles of CHM 1032. Students taking CHM 1032 concurrently are required to withdraw from CHM 1032L if they withdraw from CHM 1032. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses. Material and supply fee will be assessed.

CHM 2045 General Chemistry I
Department: Chemistry

3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

Chemical and physical properties, relationship between observables and concepts and the development of a theoretical framework. Topics will include atomic and molecular structure, theories of bonding, properties of the elements and periodicity. (General Studies Course: NS/LEC) A grade of "C-" or higher is required in prerequisite courses.

CHM 2045L General Chemistry I Laboratory
Department: Chemistry
1.0 sh (may not be repeated for credit)
Co-requisite: CHM 2045

Introduction to laboratory safety, experimental techniques, graphing of data, chemical reactivity and separations, calorimetry and volumetric analysis. Material and supply fee will be assessed. Students taking CHM 2045 concurrently are required to withdraw from CHM 2045L if they withdraw from CHM 2045. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 2046 General Chemistry II
Department: Chemistry
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L.

Continuation of CHM 2045 with emphasis on chemical calculations and problem solving. Topics include thermodynamics, equilibria, kinetics and an introduction to transition metal complexes. (General Studies Course: NS/LEC) A grade of "C-" or higher is required in prerequisite courses.

CHM 2046L General Chemistry II Laboratory
Department: Chemistry
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045L, CHM 2046
Co-requisite: CHM 2046

Experiments based on colligative properties, qualitative analysis, solution equilibria, kinetics, electrochemistry, radioactivity and synthesis. Material and supply fee will be assessed. Students taking CHM 2046 concurrently are required to withdraw from CHM 2046L if they withdraw from CHM 2046. (General Studies Course: NS/LAB) A grade of "C-" or higher is required in prerequisite courses.

CHM 2205 Fundamentals of Organic and Biochemistry
Department: Chemistry
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 1032
Co-requisite: CHM 2205L

Terminal course in organic chemistry with biochemical applications. Nomenclature, reactions of functional groups, introduction to biochemistry. Cannot be used to satisfy major requirement in chemistry or biology. A grade of "C-" or better is required in prerequisite courses. Material and Supply fee will be assessed for corresponding lab. Credit cannot be earned in both CHM 2205 and CHM 2200.

CHM 2205L Fundamentals of Organic and Biochemistry Laboratory
Department: Chemistry
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 2205
Co-requisite: CHM 2205

Isolation, purification and synthesis, carbohydrates, amino acids, peptides and isoprenoids. Material and Supply fee will be assessed. Students taking CHM 2205 concurrently are required to withdraw from CHM 2205L if they withdraw from CHM 2205. A grade of "C-" or higher is required in prerequisite courses. Credit cannot be received for both CHM 2205L and CHM 2200L.

CHM 2210 Organic Chemistry I
Department: Chemistry
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2046 and CHM 2046L.

Nomenclature, structure, fundamental reactions, mechanistic interpretation of reactions, and spectroscopy. A grade of "C-" or higher is required in prerequisite courses.

CHM 2210L Organic Chemistry I Laboratory
Department: Chemistry
1.0 sh (may not be repeated for credit)

Introduction to laboratory techniques in Organic Chemistry. Isolation, purification, and synthesis. Material and supply fee will be assessed. Students taking CHM 2210 concurrently are required to withdraw from CHM 2210L if they withdraw from CHM 2210. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211 Organic Chemistry II
Department: Chemistry
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, CHM 2210L

Nucleophilic and electrophilic substitution reactions, additions, eliminations, redox and rearrangement reactions, carbohydrates, amino acids, peptides, isoprenoids. A grade of "C-" or higher is required in prerequisite courses.

CHM 2211L Organic Chemistry II Lab
Department: Chemistry
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210L, CHM 2211
Co-requisite: CHM 2211

Multistep synthesis, separation of mixtures, identification of unknown organic compounds by classical and spectroscopic techniques. Material and supply fee will be assessed. Students taking CHM 2211 concurrently are required to

withdraw from CHM 2211L if they withdraw from CHM 2211. A grade of "C-" or higher is required in prerequisite courses.

CHM 3120 Analytical Chemistry
Department: Chemistry
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045 and CHM 2046
Co-requisite: CHM 2121L

Fundamentals of quantitative chemical analysis; introduction to modern techniques. Material and supply fee will be assessed for corresponding lab. 8 sh of general chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3230 Organic Chemistry III
Department: Chemistry
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, CHM 2210L, CHM 2211 and CHM 2211L

Focuses on spectroscopic techniques used to understand the structure of molecules, stereochemistry and stereoselective syntheses. While most examples will arise from organic chemistry, structures of selected organometaliics and inorganic complexes will be discussed. Concepts of resonance and aromaticity are presented as they impact on the structure of molecules. Use of Molecular Mechanics calculations is introduced. 8sh of organic chemistry required. A grade of "C-" or higher is required in prerequisite courses.

CHM 3400C Basic Physical Chemistry
Department: Chemistry
4.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311, MAC 2312, PHY 2053, PHY 2054.

A survey of the principles of Structure, Equilibrium, and Dynamics, applied to chemical systems. Includes experiments and other hands-on learning experiences.

CHM 3410 Physical Chemistry I
Department: Chemistry
5.0 sh (may not be repeated for credit)
Prerequisite: CHM 2211, CHM 2211L, MAC 2312, PHY 2049, PHY 2049L

Properties of gases, kinetic theory, chemical thermodynamics, heterogeneous equilibria, electrochemistry. A grade of "C-" or higher is required in prerequisite courses.

CHM 3411 Physical Chemistry II
Department: Chemistry
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 3410

Atomic, molecular structure, spectroscopy, introduction to quantum theory and statistical mechanics. A grade of "C-" or higher is required in prerequisite courses.

CHM 3740L Advanced Laboratory Techniques
Department: Chemistry
2.0 sh (may not be repeated for credit)
Co-requisite: CHM 3230

Experimental work including advanced laboratory techniques for the synthesis and purification of organic, organometallic and inorganic complexes. Training in the use of instrumentation (chromatographic techniques, NMR, GC/MS, IR, UV-Vis, ORD/CD, etc.) for the purification and characterization of these materials. Students will be introduced to the use of the chemical literature, as well as record keeping and report writing. Material and supply fee will be assessed.

CHM 3741L Physical Chemistry Laboratory
Department: Chemistry
2.0 sh (may not be repeated for credit)
Co-requisite: CHM 3411

Experiments with emphases on equilibria, kinetics and spectroscopy. Material and supply fee will be assessed.

CHM 3940 Chemistry Internship
Department: Chemistry
1.0 sh (may not be repeated for credit)

Placement in an appropriate chemical company for the purposes of gaining some experience in the field. Faculty and agency personnel will supervise as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

CHM 3949 Cooperative Education
Department: Chemistry
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

CHM 4130 Instrumental Analysis
Department: Chemistry
4.0 sh (may not be repeated for credit)
Prerequisite: (CHM 3411 or CHM 3400C) and CHM 3120
Co-requisite: CHM 4130L

Physical chemical methods of chemical analysis. Required lab. Material and Supply Fee will be assessed for

corresponding lab. A grade of "C-" or higher is required in prerequisite courses. Offered concurrently with CHM 5134; graduate students will be assigned additional work.

CHM 4455 Introduction to Polymer Science
Department: Chemistry
2.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHM 3410 or CHM 3400C.
Co-requisite: CHM 4455L

Intended to introduce students to some of the major concepts Polymer Science: An Introduction to Macromolecules - Terms and Definitions; Structure and Bonding in Polymers; Step Growth Polymerization; Chain Growth Polymerization; Ionic Polymerization and Living Polymers; Copolymers; Chain Configurations, the Theta State and Chi Parameter; The Glass Transition Temperature; Biological Polymers; and Plastics Recycling.

CHM 4455L Introduction to Polymer Science Laboratory
Department: Chemistry
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, CHM 2210L, CHM 2211, CHM 2211L, CHM 3410 or CHM 3400C
Co-requisite: CHM 4455

Laboratory to accompany CHM 4455. Will provide fundamental laboratory skills in polymer synthesis and analysis. Material and supply fee will be assessed.

CHM 4610L Inorganic Synthesis
Department: Chemistry
1.0 sh (may not be repeated for credit)
Co-requisite: CHM 4611

Modern techniques in the synthesis, separation, purification and characterization of inorganic compounds. Material and Supply fee will be assessed.

CHM 4611 Inorganic Chemistry
Department: Chemistry
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 3400C or CHM 3411

The structure, reactivity, kinetics and reaction mechanisms of inorganic and organometallic compounds.

CHM 4912 Undergraduate Chemistry Research
Department: Chemistry
2.0-4.0 sh (may be repeated for up to 8.0 sh of credit)
Prerequisite: CHM 3411 or CHM 3400

Undergraduate research is conducted with a faculty advisor or mentor. The student's research project is typically based on the faculty mentor's research interests. The mentor meets regularly with the student to make research plans, assess risks associated with the proposed research, and review results. The student is encouraged to take primary responsibility for the project and to make substantial input into its direction. A formal written report or thesis is required upon completion of the course. Permission is required.

CHM 4930 Seminar: Special Topics in Advanced Chemistry
Department: Chemistry
3.0-4.0 sh (may be repeated for up to 7.0 sh of credit)
Prerequisite: CHM 3400C or CHM 3411

Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 5932; graduate students will be assigned additional work.

CHM 4931 Seminars in Chemistry
Department: Chemistry
1.0 sh (may be repeated for up to 2.0 sh of credit)

Prepares students for careers in chemistry. Seminars by visiting scientists, university faculty and students on current research in chemistry, professional ethics, hazard waste regulations, resume writing and job interview techniques. Graded on a Satisfactory/Unsatisfactory basis only.

CHM 5134 Instrumental Analysis
Department: Chemistry
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 3411 or CHM 3400C; and CHM 3120
Co-requisite: CHM 5134L

Physical chemical methods of chemical analysis. Required lab. Material and Supply Fee will be assessed for corresponding lab. A grade of "C-" or higher is required for all prerequisite courses. Offered concurrently with CHM 4130; graduate students will be assigned additional work.

CHM 5932 Seminar: Special Topics in Advanced Chemistry
Department: Chemistry
3.0-4.0 sh (may be repeated for up to 7.0 sh of credit)
Prerequisite: CHM 3411 or CHM 3400C

Will focus on advanced topics in chemistry that will extend the knowledge learned in the core chemistry courses. Specific topic will vary depending on instructor. Offered concurrently with CHM 4930; graduate students will be assigned additional work.

CIS - COMPUTER SCIENCE AND INFORMATION SYSTEMS

CIS 3020 Introduction to CIS
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: Either EEL 4834 or the dual prerequisite of MAC 2311 and COP 2253

Introduction to computers and algorithms. Programming in a high level language. Topics include procedural abstraction, data abstraction, and structured/object oriented programming techniques, recursion and manipulating dynamic memory. Students will learn the fundamentals of developing coherent, expressive programs. May not be taken for credit by CS/CIS majors. Permission is required.

CIS 3512 Software Documentation
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: ENC 1102

Introduction to major concepts of software documentation. Emphasis on construction of software system artifacts that support team development and evolution of software systems (e.g., memos, letters, project proposals, progress reports, requirements, specifications, design, test plans, test reports, project reports). MLA, APA, and LaTex publication standards will be applied. Open to all majors (Gordon Rule course: Wrtg)

CIS 3949 Cooperative Education
Department: Computer Science
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

CIS 4340 Web Server Technologies
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2253
Co-requisite: COP 4710

Introduction to web server technologies (representative technologies - ASP.net, ColdFusion). to develop web applications. Methods include user interfaces, database connectivity and interactivity and XML manipulation.

CIS 4361C IT Security
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2253 or COP 2830

Introduction to skills, knowledge, techniques, and tools required by information-technology security professionals. Topics include security and risk management, physical security, access control, cryptography, security architecture and design, security for networks and telecommunications, application security, and legal considerations.

CIS 4385 Cyber-Security Forensics
Department: Computer Science
3.0 sh (may be repeated for up to 0.0 sh of credit)
Prerequisite: COP 3411

Provides a foundation in forensic evidence collection from electronic devices and the implications of security to users and forensic examiners. Applicable laws; disk and file recovery; bit-stream images; volatile and persistent data; cryptography; privacy and anonymity; tools for collecting evidence and reporting results. Offered concurrently with CIS 5396; graduate students will be assigned additional work. Credit cannot be received in both CIS 4385 and CIS 5396.

CIS 4592 Capstone Research Experience
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 4412

Investigation of topics currently being researched in Computer Science, with emphasis given to the student's concentration within the program. Classes will be conducted in a seminar style with discussion of journal articles. Final projects will be either expository (discussion of the current state of research on a topic) or an implementation (replicating the work described in an article).

CIS 4595C Capstone Systems Project
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4027, COP 4814, CEN 3032, COP 4710, CEN 4721.

Develop a software system for a real-world client while working in small teams. Develop and deliver relevant artifacts such as a project proposal, design, test plan, code, user's manual, and project log with metrics as the software system evolves throughout the course. A final presentation and evaluation of the project experience will be prepared. Credit may not be received in both CIS 4595C and CIS 4327C.

CIS 4911 IT Capstone Project
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: CNT 4014C and 90 Semester Hours

Real-world experiential opportunities through observation, participation, and implementation of a project within campus or for other local organization. Development of project proposals, implementation of solutions and analysis of outcomes will be stressed. Course should be taken in the final semester of the degree program.

CIS 4931 Computer Science Seminar: Topic I
Department: Computer Science
1.0-2.0 sh (may be repeated for up to 8.0 sh of credit)

Modern topics in Computer Science will be explored. Topics will vary. Open to all majors. Credit cannot be applied to the CS Concentration electives.

CIS 4941 Computer Science Internship
Department: Computer Science
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Supervised field practicum in computer-related position. May include activities in computer programming, database administration, web-development, systems administration, network security, etc. Graded on satisfactory/unsatisfactory basis only. Permission is required.

CIS 4949 Cooperative Education
Department: Computer Science
0.0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Must be a master level student and permission of director of Cooperative Education is required.

CIS 5396 Cyber-Security Forensics
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 3411

Provides a foundation in forensic evidence collection from electronic devices and the implications of security to users and forensic examiners. Applicable laws; disk and file recovery; bit-stream images; volatile and persistent data; cryptography; privacy and anonymity; tools for collecting evidence and reporting results. Offered concurrently with CIS 4385; graduate students will be assigned additional work. Credit may not be received in both CIS 5396 and CIS 4385.

CIS 6971 Thesis
Department: Computer Science
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

CJC - CORRECTIONS

CJC 4010 Punishment and Society
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Basic analysis of correctional systems in the United States. Focus is on widely held conceptions of punishment, physical design and organizational structures of prison facilities, community based correctional options, the death penalty and the evaluation of correctional research. Other topics of interest include sentencing policy, key issues faced by prison administrators and prisoners as well as the role of the victim in corrections.

CJC 4167 Alternative Punishments
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Introduces the student to the subject of alternative punishments including social, political, and economic conditions that have contributed to the development of alternative punishments. Identifies the types of alternative punishments and the effectiveness of such options. The needs of special offender populations for corrections alternatives are also explored.

CJC 6021 Penology
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Classical and contemporary readings in corrections. Uses historical and philosophical contexts to critically assess contemporary correctional issues and introduces students to the importance of data-driven policy promoting critical evaluation and debate.

CJE - LAW ENFORCEMENT

CJE 3174 Comparative Criminal Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

The evolution and operation of criminal justice systems in other nations and cultures including the development of criminal justice in response to social, historical, and political factors. Includes a brief history of the world's legal systems and an analysis of key procedural and substantive similarities and differences. Associated topics include: administration and function of police, courts, and corrections, and a study and analysis of the increasing internationalization of both the incidence of crime and the administration of criminal justice.

CJE 3674 Introduction to the Forensic Sciences
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Forensic Science is the application of scientific disciplines and principles to the legal system, particularly the litigation in court of contested factual disputes. Examines the distinct fields of education and study that collectively comprise the forensic sciences. These fields include among others forensic psychiatry and psychology, forensic anthropology, forensic pathology, forensic toxicology, serology and DNA typing, questioned documents, crime scene investigation, forensic engineering, fingerprint evidence, polygraph and other investigative devices, and forensic chemistry including

drug analysis. Credit may not be received in both CJE 3674 and CJE 3670.

CJE 4110 Police in a Free Society
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Analysis of the role of and challenges to policing in a democratic society. Examination of contemporary and historical influences on police policy, personnel, and organization. Discussion of police function within society.

CJE 4161 Crime and Film
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Films capture facts and the emotional truth likely to have lasting importance in the way criminal justice is perceived and carried out today. They show complexities of the issues and raise questions regarding characters' behavior, the criminal justice system and crime, law enforcement, courts, and corrections. Films are chose in part because of their commercial success and impact on American pop-culture and may change each time the course is offered.

CJE 4610 Criminal Investigation
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CCJ 3024
Co-requisite: CCJ 3024

An introduction to criminal investigation. Topics will include investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation. Credit may not be received in both CJE 4610 and CCJ 4239.

CJE 4613 Homicide
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

An examination of homicide and its investigation. Includes types of homicide as well as death by natural and accidental causes. Reviews and expands on investigative theory, collection and preservation of evidence, sources of information, interview and interrogation, uses of forensic sciences and case and trial preparation.

CJJ - JUVENILE JUSTICE

CJJ 4010 Juvenile Justice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examines the nature and extent of delinquency in the United States and the system response to juvenile crime. Particular attention is given to theoretical explanations of juvenile delinquency and examination of how politics, courts, and correctional agencies respond to juvenile offenders, and the effectiveness of these responses. Credit may not be received in both CJJ 4010 and CCJ 4501.

CJJ 6020 Criminal Justice and the Juvenile
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Explores the nature and extent of juvenile delinquency and examines explanatory models and theories of juvenile deliquency. Topics related to the juvenile justice system and the process, such as juvenile waiver to the adult court, diversion and deinstitutionalization, police interaction, and community intervention.

CJL - LAW AND PROCESS

CJL 3510 Judicial Process
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examination of the judicial component of the criminal justice system. Analysis of structure, procedures, and personnel of American courts. General discussion of the political and social influences on the judicial process and organization.

CJL 5521 Courts and Society
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Analyzes the role of courts in American Society. Examines the various influences on judicial organization, process, and decision making. The impact of courts within society and the criminal justice system are also explored.

CLP - CLINICAL PSYCHOLOGY

CLP 3144 Abnormal Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Broad overview of psychological disorders of children and adults including history of abnormal human behavior, research methods, theories and causes, and contemporary treatment. Typical topics include adjustment, mood, anxiety, somatoform, factitious, dissociative, substance-related, personality, and psychotic disorders (including schizophrenia).

CLP 4314 Health Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Survey of contributions of the discipline of psychology to the promotion and maintenance of health and prevention and treatment of illness. Application of biopsychosocial model to health. Credit cannot be received in both CLP 4314 and PSY 4820.

CLP 4390 Introduction to Forensic Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

This upper-level undergraduate course is designed to be an exciting and intellectually challenging introduction to the study of Forensic Psychology. Forensic Psychology deals with the interplay between the disciplines of psychology and law. Specifically, this class examines the legal system through the use of psychological concepts, methods, and research results. Although the course covers both criminal and civil aspects of the legal system, the primary focus will be on the role of psychologists in those areas pertaining to the criminal legal system. Class content focuses on theory but also has a strong experiential component as well. Specifically, the class learning experience culminates in the production of a Mock Trial.

CLP 5166 Psychopathology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: CLP 3144

In depth analysis of child and adult psychological disorders focusing on practical application of the current diagnostic manual in developing diagnostic formulations. Emphasis on an integrative theoretical approach and the empirical foundation for theory, causes, and treatment of psychological disorders.

CLP 6441 Individual Intelligence Testing
Department: Psychology
3.0 sh (may not be repeated for credit)

Integration of theory and research on intellectual assessment in support of development of practical skill and expertise in administering, scoring, interpreting, and writing reports of standard intelligence tests. Emphasis is on the Wechsler Scales and the Stanford-Binet. Permission is required.

CNT - COMPUTER NETWORKS

CNT 4007C Theory and Fundamentals of Networks
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4610C

A functional systematic examination of the key components and theories of modern computer networks, including protocol stack, mobile networking, network security, multimedia networking and network management. Emphasizes the internet for studying network fundamentals and includes the use of tools to analyze network operations.

CNT 4014C IT Administration
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2253 or COP 2830

Introduction to principles behind design, installation, and support of organization's LAN, WAN, network segment, intranet, or Internet, including maintenance of network hardware and software, and monitoring of network to ensure availability to system users. Topics include gathering of data to determine customer needs, identification, interpretation, and evaluation of system and network requirements and technical-management issues.

CNT 4403 Computer and Network Security
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4600

Introduction to the concepts of computer and network security using currently available technology. Security analysis, physical threats, virus protection, system recovery, and encryption. Credit may not be received in both CNT 4403 and CEN 4540.

CNT 6107 Advanced Computer Networks
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 4321; MAC 2233 or MAC 2311

Topics to be addressed include Local Area Networks (LANS), review of LANS Protocols, TCP/IP Suite and Data Networks. Overview of probability and stochastic processes, queuing analysis and self-similar traffic, high speed LANS, link-level flow and error control, routing and switching. Wireless and mobile communications, network security and gigabit ethernet. Credit may not be received in both CNT 6107 and CEN 6520.

COM - COMMUNICATION

COM 3404 Nonverbal Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: SPC 3301

Provides a comprehensive introduction to the role of nonverbal communication in the communication process, including major principles, theories, and research trends. Emphasis on observing and analyzing the functions of nonverbal communication in a variety of work and personal contexts.

COM 3462 Persuasive Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Introduction to study of persuasive communication in human relationships. Emphasis on acquiring both knowledge and skill needed to achieve interpersonal influence goals in personal, group, and organizational contexts. This course should have great utility for communication majors and non-majors interested in effectively persuading others.

COM 3948 Service Learning Field Study II
Department: Communication Arts
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlations between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 6-8 hours' work per week must be done at the field site per semester hour of credit. Permission is required.

COM 4014 Gender and Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines the roles gender plays in managing diversity in the workplace, developing personal relationships and exploring mass media in contemporary culture. Comparative study of characteristics of masculine/feminine communication in conversation. Offered concurrently with COM 5015; graduate students will be assigned additional work. Meets Multicultural requirement.

COM 4022 Health Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education, and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 5025; graduate students will be assigned additional work.

COM 4102 International Business Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides a framework for anticipating, analyzing, and responding to communication challenges when conducting international business. Addresses specific international communication behaviors in countries that conduct business frequently with U.S. companies. Meets Multicultural requirement.

COM 4103 Leadership Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Promotes leadership development through study of leadership theory and concepts and practical application of leadership laboratory experience. Based on a servant leader philosophy, focuses on building leadership competencies in interpersonal communication, public presentations, team building, working in multicultural environments, mentoring, problem solving and influence strategies used in interpersonal and public forums to bring about community and organizational change. Leadership skill-building opportunity to all participants. Credit may not be received in both COM 4103 and COM 4103C.

COM 4110 Business and Professional Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Practical understanding of communication practices affecting the work place. Emphasis on managing work relationships, listening, organizational interviews, professional presentations, communication technologies and multi-cultural diversity.

COM 4120 Organizational Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines the dynamics of communicating within organizations and with stakeholders. Students analyze case studies of actual organizations and build skills related to teamwork, motivation, morale-building, leadership, decision-making, and more. Offered concurrently with COM 5121; graduate students will be assigned additional work.

COM 4464 Applied Communication Theory
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines theories of organizational communication. Promotes understanding of the usefulness of applying communication theory to solve practical problems. Includes the creation of a Dream Job portfolio, for which students research careers of their choice and shadow professionals in their chosen fields.

COM 4465 Conflict Management
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides in-depth exposure to communication processes, strategies, and stages involved in conflict management and negotiation. Emphasis placed on application of competent communication behavior during conflict in personal and professional situations. Involves hands on, student learning project wherein students act as facilitators to help other students resolve conflicts.

COM 4620 Communication Ethics
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Guides students in examining ethical considerations in business and public life. Includes diverse ethical perspectives, critical methods of analysis, and greater awareness of the role ethics plays in everyday life. Offered concurrently with COM 5625; graduate students will be assigned additional work.

COM 4940 Internship in Communication
Department: Communication Arts
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: Senior standing, 2.7 overall GPA

Supervised field practicum in a communication-related position, to include advertising, broadcast and print journalism, telecommunications and film, organizational communication and public relations. Senior standing and a 2.7 overall GPA is required. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

COM 5XX0 Introduction to Graduate Studies in Communication
Department: Communication Arts
1.5 sh (may not be repeated for credit)

Designed to introduce graduate students to critical elements of graduate studies in communication. Central topics include mastering the basics of APA style, honing analytic writing skills related to the study of communication, instructional resources, academic integrity issues unique to communication, and the history of the communication discipline.

COM 5XX1 Computer Mediated Communication
Department: Communication Arts
1.5 sh (may not be repeated for credit)

Practical and theoretical issues associated with how people use computers in business, social, political, cultural, educational, and personal activities. Examines how computers are used to establish and expand personal identity, create interpersonal relationships and manage information represented by the Internet. Teaches how to access various types of information as well as find and create resources and how to navigate and take maximum advantage of the Internet.

COM 5025 Health Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides an up-to-date overview of the health care industry, spotlighting communication issues in patient care, health care administration, public relations, human resources, health education and the media. Includes coverage of diverse cultures and ethical considerations. A highly interdisciplinary course useful for students considering any type of career in the health care industry. Offered concurrently with COM 4022; graduate students will be assigned additional work. Graduate standing is required.

COM 5121 Organizational Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines the dynamics of communicating within organizations and with stakeholders. Students analyze case studies of actual organizations and build skills related to teamwork, motivation, morale-building, leadership, decision making and more. Offered concurrently with COM 4120; graduate students will be assigned additional work.

COM 5206 Communication Training
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Prepares students to design and conduct communication skills training for professionals. Emphasizes adult learning, conducting needs assessments, establishing training objectives, using communication technology and evaluating training efforts. Involves a hands-on student learning project in which students conduct needs assessments and present two-hour workshops for local professional organizations. Offered concurrently with COM 4202; graduate students will be assigned additional work. Other majors must confer with instructor regarding comparable prerequisites. Offered Fall of every other year.

COM 5940 Internship in Communication
Department: Communication Arts
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Supervised field practicum in communication-related position, to include broadcast, film, print media and public relations. Graded on satisfactory/ unsatisfactory basis only. Graduate standing, a 3.0 GPA in communication arts, and permission is required.

COM 6XX0 Strategic Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides a conceptual framework for strategic communication, sharpens analytical and critical thinking, and provides a unifying function for the Strategic Communication & Leadership Program. Addresses all aspects of the

development and execution of communication programs. Offers "real world" experience through the analysis of case studies. Case studies and coursework will be drawn from the profit, non-profit, product, and service sectors. Particular attention will be paid to sociopsychological, legal, and ethical issues as they relate to the decision-making process.

COM 6XX1 Emerging Topics in Political Communication
Department: Communication Arts
1.5 sh (may not be repeated for credit)

Advanced political communication theory and current practice that focuses on consultancy-based political campaigning, government advocacy and public relations. Particular emphasis is on the critical analysis of advocacy texts and development of strategic plans for campaign communication.

COM 6XX2 Emerging Topics in Health Communication
Department: Communication Arts
1.5 sh (may not be repeated for credit)

Highlights how communication issues in health care are interwoven with community well-being, civic life, professional development, and opportunities for collaboration and mutual gain. Topics may include health care reform, leadership in health care settings, patient and family satisfaction, privacy issues, and burnout among health professionals. Utilizes current research, theoretical foundations, and local health care experts to explore relevant and emerging issues. Uses health care case studies to develop effective leadership and strategic communication strategies.

COM 6XX3 Emerging Topics in Nonprofit Organizational Communication
Department: Communication Arts
1.5 sh (may not be repeated for credit)

Exploration of current communication issues and challenges facing today's nonprofit organizations. Emphasizes the development of strategies to address these issues through case studies, course readings, and by studying the communication challenges of local nonprofit organizations.

COM 6XX4 Assessing Organizational Dynamics
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Applying systems thinking to analyze the dynamics of communication within an actual organization. Emphasis on deep-level analysis to reveal who talks to whom, when, why, and about what. Goals are (1) to reveal communication patterns and assumptions that make it either easy or difficult to achieve high quality organizational production and (2) to help organizational members design processes that foster the creation of high-performance, high-capacity teams.

COM 6XX5 Emerging Topics in Communication Law and Ethics
Department: Communication Arts
1.5 sh (may not be repeated for credit)

An advanced seminar covering legal issues such as the First Amendment, political speech, defamation, emerging technologies, and access to information; and ethical issues such as taste and editorial content.

COM 6001 Introduction to Graduate Studies in Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Professional field of communication: emphasis on philosophy, objectives, history, bibliography, careers, professional associations, research directions and needs, and historical research methods.

COM 6023 Enhancing Communication Within Health Care Organizations
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines communication challenges in health care organizations and presents skills and strategies for communicating to full advantage. Appropriate for administrators, public relations and marketing professionals, business personnel, clinicians, counselors, and others who work in health care. Permission is required. Open only to participants in the Health Communication Leadership Certificate program.

COM 6026 Promoting Organizations and Their Goals
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Investigates how organizations can monitor the external environment and communicate in mutually satisfying ways with clients, other organizations, and members of the community. Covers market analysis, strategic planning, organizational promotion, and design and implementation of communication campaigns.

COM 6027 Health Communication Leadership Project
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: COM 6023, COM 6026, and COM 6029.

Guides participants through the completion and implementation of a final project, building on the knowledge and skills acquired in COM 6023, COM 6026, and COM 6029. Permission is required.

COM 6028 Health Communication Leadership Capstone
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Prerequisite: COM 5940, COM 6023, COM 6026, COM 6029, COM 6312, MAN 5047, MAN 6156, and MAN 6285.

A series of workshops aimed at helping students synthesize their experience in both the Health Communication Certificate courses and the Organizational Development Leadership courses. Permission is required.

COM 6029 Improving Employee, Client, and Patient Satisfaction
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines the factors that influence burnout and ways to foster communication environments that are satisfying rather than frustrating. Includes skills training in interpersonal communication, managing emotions, conflict management, and systems approaches to change.

COM 6207 Advanced Communication Leadership
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Based on a hands-on leadership project informed by the study of leadership communication theory, research, and case studies. Emphasis is on developing communication skills, strategy, and awareness to enhance leaders' effectiveness. Permission is required.

COM 6312 Quantitative Research Methods
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023

Analysis of the selected methods of quantitative investigation as they pertain to field of communication. Primary emphasis is on survey research techniques.

COM 6400C Theories of Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Major theories of communication. Emphasis on the application of theory and the development of evaluation techniques.

COM 6930 Organizational Communication Project
Department: Communication Arts
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Advanced research project for a major corporate or organizational client. Working with a client organization, students will identify a problem for study, perform an extensive review of issues related to the project, develop several testable research questions or hypotheses about the problem, gather and analyze qualitative and/or quantitative data, and write an extensive report, including summary conclusions based on the study. May enroll for more than one term, minimum of 6sh required for M.A. degree. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

COM 6971 Thesis
Department: Communication Arts
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Students will identify a significant academically oriented communication research question. They will perform an extensive review of academic literature on the topic, develop several testable hypotheses or research questions, gather and analyze qualitative and/or quantitative data, and write a final conclusion based on results of the study. May enroll for more than one term, minimum of 6sh required for M.A. degree. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

COM 8980 Dissertation
Department: Communication Arts
1.0-6.0 sh (may be repeated for up to 18.0 sh of credit)
Prerequisite: Admission to candidacy and permission is required.

Designed specifically for students pursuing a Doctorate of Education degree at UWF and specializing in Social Sciences/Communication Arts. Involves in-depth study of communication theory and research, as guided by a major professor and doctoral committee. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

COP - COMPUTER PROGRAMMING

COP 2253 Programming Using Java
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduction to algorithms and object-oriented programming. Topics include object-oriented design and modeling, UML, encapsulation, inheritance, data types, GUI, control constructs, looping constructs, parameter passing, and arrays. Emphasizes developing fundamental programming skills and software engineering principles in the context of an object-oriented language.

COP 2334 Programming Using C++
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduction to computers and algorithms. Programming in a high level language. Topics include structured programming techniques, procedural and data abstraction. Students will learn the fundamentals of developing coherent, expressive programs.

COP 2830 Script Programming
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduction to the essential skills of programming with scripting. Topics include use and manipulation of variable, design and validation of forms, and writing scripts for systems calls and command line arguments.

COP 3022 Intermediate Computer Programming
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 2253; and either MAC 2311 or MAC 2233
Co-requisite: COP 3022L

A intermediate course in object-oriented programming. Topics include object oriented modeling, algorithms, inheritance, polymorphism, input/output, exception handling, recursion, event driven programming, and basic GUI programming. Emphasis will be on issues of object-oriented design and good programming practices. Students entering this course are expected to have solid knowledge of programming in the object-oriented paradigm.

COP 3411 Data Structures and Algorithms I
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 3011
Co-requisite: COP 3411L

A first course in Data Structures and Algorithms. Topics will include traditional data structures with a major focus on design and analysis of algorithms and will include projects that stress mathematics and science.

COP 3813 Internet Programming
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or COP 2830

An overview for design and implementation of various elements of programming for the Internet. Instruction in html, xml, and popular scripting languages to create sophisticated web applications that rest on the client/server architecture, culminating in Web services. The use of aesthetic elements such as CSS style sheets and quality graphics and audio files for Internet applications will be explored.

COP 4020 Programming Languages
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 4412 and COP 4331
Co-requisite: COP 4020L

Programming language theory and practice, including language design and implementation, theoretical foundations, language translation, and exposure to a variety of programming paradigms.

COP 4027 Advanced Computer Programming
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 3022
Co-requisite: COP 4XX1L (Advanced Computer Programming Lab)

The third course in the introductory programming sequence. Addresses advanced topics including multi-threaded programs, the basic of data structures, generic programming, basic client-server programming, XML and web-based applications

COP 4173 Advanced Visual Basic Programming
Department: Computer Science
3.0 sh (may not be repeated for credit)

Covers advanced concepts of visual programming. Students should have prior knowledge of Visual BASIC, Windows, Access/Oracle and e-mail. In addition, students should have knowledge of data structures such as arrays, records and files. Topics covered include, but are not limited to: Windows API and DLL functions, the application of VB with databases, and the creation and implementation of Active X. Senior standing is required.

COP 4331 Object Oriented Programming
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 3411
Co-requisite: COP 4331L

Exploration of the fundamental ideas behind object-oriented programming, including encapsulation, inheritance, and polymorphism. Applications will focus on extracting objects from a problem domain, designing problem solutions based on message-passing between objects, and documenting object-oriented design. Implementations will be done in a current object-oriented language.

COP 4412 Data Structures and Algorithms II
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 3411
Co-requisite: COP 4412L

A second course in Data Structures and Algorithms. Topics include mathematical properties of algorithms (complexity, correctness), trees and graphs, hashing, relational (database) structures, Dynamic Programming and numerical programming. Emphasis on issues of correctness and efficiency. Students entering this course are expected to have a solid knowledge of programming.

COP 4610C Theory and Fundamentals of Operating Systems
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 3022

A functional systematic examination of the key components and theories of a modern operating system, including process, thread management, synchronization, I/O, and memory management. Emphasizes using several modern operating systems and writing programming scripts to manipulate these operating systems.

COP 4634 Systems & Networks I
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: CDA 3101 and COP 3411
Co-requisite: COP 4634L

The design and implementation of various components of a modern operating system including process and thread management and synchronization, I/O programming and inter-process communication. Internet communication through TCP and UDP sockets, sliding window algorithms, and client/server and peer-to-peer application development.

COP 4635 Systems & Networks II
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 4634 and COP 4412
Co-requisite: COP 4635L

This course is a continuation of Systems and Networks I. The operating systems topics of virtual memory and file systems are included. Topics relevant to networking and multiprocessor programming are covered. These include deadlock analysis, networking devices, networking protocol stack structure, congestion and flow control analysis and algorithms, network routing algorithms, and network traffic analysis. The role of security in both operating systems and networks is covered.

COP 4653 Embedded/Wireless Systems
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4412 or COP 4027; CEN 3032

Review of concepts and principles related to the development and evolution of embedded and wireless software systems.

COP 4710 Database Systems
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or COP 2830

Introduction to database systems and database management system architectures. Various database models are discussed with an emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL, are included. Offered concurrently with COP 5725; graduate students will be assigned additional work.

COP 4723 Database Administration
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710

Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemes, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance. Offered concurrently with COP 5775; graduate students will be assigned additional work.

COP 4814 Network-Centric Software Applications
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710, COP 4027

An introduction to network-centric software systems with emphasis on architectures, technologies, and design and development of an application. Critical issues including interoperability and security. Topics include network protocols, the role of data in net-centric applications and web services as examples of interoperable network applications.

COP 4856 Distributed Software Architecture I
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 3411

A first course in software aspects of distributed architecture, with emphasis on database integration and interoperability of distributed components.

COP 4857 Distributed Software Architecture II
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4856

Continuation of Distributed Software Architecture I that emphasizes large-scale, distributed, enterprise-level systems. Includes comparative analysis of alternative software architectures, technologies, and their relationships to standards. Incorporates conceptualization, design, implementation, and testing of representative functionality for a distributed, multi-platform enterprise system.

COP 5725 Database Systems
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: Any programming course

Introduction to database systems and database management system architectures. Various database models are discussed with emphasis on the relational model and relational database design. Case applications using fourth-generation languages, such as SQL are included. Offered concurrently with COP 4710; graduate students will be

assigned additional work. Students cannot receive credit for both COP 5725 and COP 4710.

COP 5775 Database Administration
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710 or COP 5725

Database administration skills covering installation, configuration and tuning a database, administering servers and server groups, managing and optimizing schemas, tables, indexes, and views, creating logins, configuring permissions, assigning roles and performing other essential security tasks, backup and recovery strategies, automation and maintenance. Offered concurrently with COP 4723; graduate students will be assigned additional work. Students cannot receive credit for both COP 4723 and COP 5775.

COP 6025 Advanced Programming Languages
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 4020

Theory and practice of programming language design. Topics include: advanced language constructs, an overview of parallel programming, formal specification of programming languages, the analysis/synthesis model of program translation, code optimization, and compiler construction tools. Students will design and implement a small programming language.

COP 6727 Advanced Database Systems
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710 or COP 5725

Advanced topics in database management systems will be covered, for example, further dependencies and higher normal forms, transaction processing, concurrency control, backup and recovery, indexing, replication, managing large databases, and contemporary issues and topics in databases.

COT - COMPUTING THEORY

COT 3011 Algorithms and Program Design
Department: Computer Science
4.0 sh (may not be repeated for credit)
Co-requisite: COP 3011L

An introduction to designing solutions to scientific problems. Emphasis on the use of basic programming constructs to create correct, efficient algorithms. Secondary focus on implementation of the algorithms using a current procedural language.

COT 3100 Discrete Structures
Department: Computer Science
4.0 sh (may not be repeated for credit)
Prerequisite: COP 2253; MAC 2233 or MAC 2311
Co-requisite: COP 3100L

Number systems, propositional logic, predicates, sets, functions, sequences, summations, algorithms, induction, recursion, graphs, trees, boolean functions, languages and grammars, and finite state machines. Emphasis is on developing programming skills. May not be taken for credit by CS majors.

COT 3701C Game Design
Department: Computer Science
3.0 sh (may not be repeated for credit)

Introduction to basic principles of Game Design including history of game types, game interfaces, structure of games, importance of story line, dramatic elements, character development, conceptualizing a game, prototyping, play testing, fun and accessibility and game development life cycle.

COT 4420 Theory of Computation
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 3411, MHF 3202

Theoretical foundations of computer science. Classification of formal languages, grammars, and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Unsolvability of the halting problem. Offered concurrently with COT 5206; graduate students will be assigned additional work. Credit cannot be received in both COT 4420 and COT 5206.

COT 5205 Theory of Computation
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Theoretical foundations of computer science. Classification of formal languages, grammars and automata. Parsing and recognition of syntactic expressions. Turing Machines and random access machines. Church-Turing thesis. Unsolvability of the halting problem. Dual-listed with COT 4420; graduate students will be assigned additional work. Students cannot receive credit for COT 5205 and COT 4420.

COT 5930 Computer Science and Software Engineering Seminar
Department: Computer Science
3.0 sh (may be repeated for up to 6.0 sh of credit)

A seminar-style course that provides graduate and advanced undergraduate students with exposure to material beyond the

standard curriculum. Specific topics will be based on the interests of the students enrolled.

COT 6415 Computation and Complexity
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COT 4400, COT 4420

Provides a foundation in theoretical computer science. The basic theorems of recursion theory, as well as the concepts of reducibility and NP-completeness, are covered in detail. Applications of logic, combinatorics, and graph theory in computer science are stressed. Selected advanced topics may include randomization, approximation, parallelism, and oracle methods.

COT 6931 Computer Science Project
Department: Computer Science
3.0 sh (may be repeated for up to 6.0 sh of credit)

Capstone course for Masters students who do not elect the thesis option. Normally taken for 3 credits in each of two consecutive semesters. Students will define and carry out a project that shows mastery of some topic in computing and produces some concrete product such as a report or a computer program. Students should not enroll until they have completed at least 12 semester hours of their graduate coursework. Permission is required.

CPO - COMPARATIVE POLITICS

CPO 2002 Comparative Politics
Department: Government
3.0 sh (may not be repeated for credit)

Examination of political processes and political institutions in selected foreign countries such as Britain, France, Germany, USSR, Japan and India. Methods of cross-national political analysis. (General Studies Course: SS/SOC) Meets Multicultural requirement.

CPO 3103 Politics of Western Europe
Department: Government
3.0 sh (may not be repeated for credit)

Political processes and institutions of selected European political systems. Meets Multicultural requirement.

CPO 3513 Politics of the Far East-Japan and China
Department: Government
3.0 sh (may not be repeated for credit)

Political systems of China and Japan offer striking comparisons to each other and to the United States. They provide two non-Western cultural contexts within which some Western political ideas and institutions operate. Meets Multicultural requirement.

CPO 3643 Russian Politics
Department: Government
3.0 sh (may not be repeated for credit)

Analysis of contemporary Russian politics that takes into account historical background, geographical constraints, social and economic influences, the transition from communism, present-day institutions and leadership, and probable trajectory of regime.

CPO 3773 Great World Leaders
Department: Government
3.0 sh (may not be repeated for credit)

Reviews ancient and contemporary theories of political leadership, contrasting leadership in democratic and dictatorial regimes in the context of case studies around the world, across continents and time periods. Meets Multicultural requirement.

CPO 4303 Politics of Spain, Portugal, and Latin America
Department: Government
3.0 sh (may not be repeated for credit)

The politics of Spain, Portugal, and the largest Latin American countries (Argentina, Brazil, Mexico) and, as time permits, other countries of particular concern to the United States. Meets Multicultural requirement.

CPO 4314 Democracies
Department: Government
3.0 sh (may not be repeated for credit)

Democratic theory and practices around the world. Types of transition, founding elections, and problems of democratic consolidation.

CPO 4531 Politics and Culture of India
Department: Government
3.0 sh (may not be repeated for credit)

Introduction to the history, society, culture, politics, and religious traditions of India. Meets Multicultural requirement.

CPO 6006 Seminar in Comparative Politics
Department: Government
3.0 sh (may not be repeated for credit)

Comparison and analysis of political systems, theoretical and empirical.

CRW - CREATIVE WRITING

CRW 2001 Introduction to Creative Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Overview and introduction to three genres of creative writing: poetry, fiction, and creative nonfiction. Will be taught as part lecture/ discussion and part writing workshop. Credit cannot be received in both CRW 2001 and CRW 2000.

CRW 3110 Fiction Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Workshop in narrative fiction. Practice in developing plot and character and establishing point of view. Emphasis on writing for publication in specific markets.

CRW 3310 Poetry Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Workshop in writing poetry. Practice in traditional forms and extensive work in contemporary free verse.

CRW 3424 Playwriting
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Playwriting is devoted to the analysis and creation of literary drama. Introduces the student to the dramatic elements of plot, scene, character development and motivation, and dramatic action through the study of established playwrights and plays. Students will also submit their own original creative work for discussion and analysis by the professor and class. Permission is required.

CRW 4211 Creative Non-Fiction
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Writing workshop in which students explore the personal essay through the process of reading and writing about autobiography, travel, science, politics, and art.

CRW 6130 Workshop in Fiction Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Writing, editing, and evaluating fiction. Students will be expected to write original publishable fiction and critique writing produced in class. Permission is required.

CRW 6236 Workshop in Creative Non-Fiction Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Writing, editing, and evaluating original pieces of creative non-fiction. Permission is required.

CRW 6331 Workshop in Poetry Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Writing, editing, and evaluating poetry. Students will be expected to familiarize themselves with both traditional forms and free verse. Permission is required.

CRW 6934 Special Topics in Creative Writing
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

A writing workshop with a central theme such as autobiography, nature writing, the persuasive essay, biography, or studies of place. Topics change each term. See department or instructor for specific topic.

CTS - COMPUTER TECHNOLOGY AND SKILLS

CTS 3159 End User Support
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or COP 2830

An applied course pertaining to the usual activities that are involved in supporting end users of computers. Addresses the technical capabilities a support specialist needs and the "soft skills" necessary when dealing with clients. Topics include computer facility management, customer service skills, user needs analysis, installing and troubleshooting computer systems, help desk organization, product evaluation, and user training.

CTS 4348 Linux System Administration
Department: Computer Science
3.0 sh (may not be repeated for credit)

Installation, configuration and maintenance of a modern open-source operating system in individual and corporate environments. Topics include installation planning and implementation; disk partitioning; single and dual booting; software configuration; client/server systems; users and groups; maintenance; security; and troubleshooting. Offered concurrently with CTS 5349; graduate students will be assigned additional work.

CTS 4817 Web Server Administration
Department: Computer Science
3.0 sh (may not be repeated for credit)
Prerequisite: COP 2334 or COP 2253 or COP 2830

An overview of essential skills in web server administration. Topics include installation and configuration of client web servers, user creation and login authentication, configuration of applications, security, management of user permissions.

CTS 5349 Linux System Administration
Department: Computer Science
3.0 sh (may not be repeated for credit)

Installation, configuration, and maintenance of a modern open-source operating system in individual and corporate environments. Topics include installation planning and implementation; disk partitions; single and dual booting; software configuration; client/server systems; users and groups; maintenance; security; and troubleshooting. Offered concurrently with CTS 4348; graduate students will be assigned additional work.

CYP - COMMUNITY PSYCHOLOGY

CYP 6005 Community Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Introduces the student to the field of community psychology which is the branch of psychology that seeks to understand relationships between environmental conditions and the development of health and well being of all members of a community. Students will study the development of the field of community psychology and its theories and paradigms of research and action. Additionally, students will concentrate on the practice of community psychology.

CYP 6538 The Consultation Process
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Addresses the historical roots of mental health consultation, basic concepts in mental health consultation, the consultation process, and the various types of mental health consultation. Considerable emphasis is given to working within public schools and consulting with outside agencies. Consultation is defined and contrasted to other helping relationships, and definitional issues are addressed. Includes a discussion of the skills and characteristics of the consultant, and ethical and legal considerations.

D DAA - DANCE: EMPHASIS ON ACTIVITY

DAA 1300 Ballroom Dance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

This course is designed to teach beginner level ballroom dancing steps in the Foxtrot, Waltz, Jitterbug, Cha Cha, Tango, Merengue, Mambo, and the Charleston. In addition, the fitness benefits of social dance, the application of fitness to dance, and a brief history of each dance will be presented.

DAA 1520 Fitness Tap Dance I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A beginning level fitness tap dance class that focuses on building fitness through the use of tap dance and fitness techniques. Designed for the non-dancers, dancers and athletes. Credit may not be received in both DAA 1520 and DAN 1755.

DAA 2000 Dance Fundamentals
Department: Theatre
3.0 sh (may not be repeated for credit)

Dance foundation course for Music Theatre performance. Course focus is on the proper technique needed for dance in the theatre and will cover dance kinesiology, proper warm-up, and foundations of ballet and jazz dance.

DAA 2101 Modern Dance
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: DAA 2200
Co-requisite: DAA 2200

Experience in modern dance technique and movement exploration.

DAA 2200 Ballet I
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)

Basic ballet technique with discussion of terminology and history.

DAA 2201 Ballet II
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: DAA 2200

A continuation of the principles of classical ballet training, designed to strengthen and develop sound ballet technique at an intermediate level through barre and centre practice. Emphasis is on correct placement and alignment, vocabulary, musicality, and movement quality, all increasing in technical difficulty throughout the semester.

DAA 2500 Jazz Dance I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Instruction and practice in beginning jazz technique comprising of several different jazz styles, basic dance terminology, dance history, and current status of jazz dance in society. Emphasis includes dance as a physical activity as well as an art form.

DAA 2501 Jazz Dance II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Instruction and practice in beginning, intermediate and advanced jazz technique comprising different jazz styles. Basic dance terminology, dance history, and current status of jazz dance in society will be reviewed. In-depth study of physiological training factors related to jazz dance will be conducted. Students will learn how to critique, plan and create jazz dance programs for the development of personal dance skills for pleasure, health and physical fitness. Proper warm-up procedures, conditioning techniques, nutritional considerations, and injury prevention strategies will be emphasized.

DAA 2750 Ballet Conditioning and Fitness I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A beginning level ballet technique class that focuses on building fitness through the medium of dance. Teaches the fundamentals of classical ballet, and is designed to strengthen and develop technique at a beginning level through barre and centre practice. Emphasis is on correct body placement and alignment, strength and flexibility, vocabulary, musicality and movement quality. Designed for non-dancers, dancers, and athletes.

DAA 2751 Modern Dance for Conditioning
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Introduces the student to the principles of modern dance techniques. Emphasis is on correct placement and body alignment, strength and flexibility, movement vocabulary, rhythmic and creative skills.

DAA 3004 Dance Styles I
Department: Theatre
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: DAA 2000

Dance styles for the music theatre student in the area of ballet and classical forms of dance.

DAA 3005 Dance Styles II
Department: Theatre
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: DAA 2000

Dance styles for the music theatre student in the area of modern dance, jazz, and tap.

DAA 3006 Dance Styles III
Department: Theatre
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: DAA 2000

Dance styles for the music theatre student in the area of non-western dance.

DAA 3208 Ballet III
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: DAA 2201

An extension of the classical ballet techniques mastered in DAA 2201.

DAA 3209 Ballet IV
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: DAA 3208

An extension of the classical ballet techniques mastered in DAA 3208. Permission is required.

DAA 3360 Irish Step and Ceili Dancing I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Beginner level soft-shoe class in Traditional Irish Step and Ceili Dancing. A Basic Reel (solo style step dancing) and 2-3 Ceili dances will be taught. The history of Irish dance will be explored.

DAA 3584 Musical Theatre Dance
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: DAA 2200
Co-requisite: DAA 2200

Practice of dance for the Musical Theatre.

DAA 3586 Jazz Dance Performance
Department: Theatre
3.0 sh (may not be repeated for credit)

Jazz dance technique with emphasis on style, movement skills, choreography, vocabulary, history, and performance. Credit may not be received in both DAA 3586 and DAA 3380.

DAA 4108 Advanced Modern Dance
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)

Advanced Modern Dance is a three credit academic course. It meets three hours per week and can be repeated for credit 3 times. The student must have reached the highest level of physical strength, mastery of skills, and technical knowledge in order to be eligible for placement in this section. Permission is required. Credit may not be received in both DAA 4108 and DAA 4106.

DAA 4210 Ballet V
Department: Theatre
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: DAA 3209

An extension of the classical ballet techniques mastered in DAA 3209.

DAA 4211 Ballet VI
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: DAA 4210

The culmination of the classical ballet techniques mastered in Ballet V leading to mastery of ballet techniques. Permission is required.

DAN - DANCE

DAN 3744 Dance Fitness
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Combines basic fitness and movement principles applied to movements in jazz dance and low-impact elements of ballet. Progressive daily knowledge and skills for dance learning and performance. Also provides the opportunity for students to enhance health and fitness through the medium of dance. Credit may not be received in both DAN 3744 and DAN 3754.

DEC - MARKETING AND DISTRIBUTIVE EDUCATION

DEC 4401 Special Teaching Methods: Distributive Education
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Develops skill and competencies in special methods for those teaching distributive education in secondary schools. Includes latest instructional materials and methods for cooperative/distributive education.

DEP - DEVELOPMENTAL PSYCHOLOGY

DEP 2004 Human Development Across the Lifespan
Department: Psychology
3.0 sh (may not be repeated for credit)

Survey of major themes and recent findings in the area of human development across the life span. Emphasis will be on the major transitions from fetal development through death in the physical, cognitive, social, and emotional domains. The impact of ethnic, gender, and cultural factors on development will be examined. (General Studies Course: SS/BEH)

DEP 3103 Child Development
Department: Psychology
3.0 sh (may not be repeated for credit)

Development and behavior of children from infancy to adolescence from two viewpoints: age periods (prenatal, infancy, preschool, school) and areas (physical, intellectual, personality, etc.).

DEP 4305 Psychology of Adolescence
Department: Psychology
3.0 sh (may not be repeated for credit)

Social, emotional, biological, and intellectual elements of adolescence. Addresses the transitions from childhood to adolescence and from adolescence to adulthood. Application of theories is stressed. Option for partial credit via field experiences. Credit cannot be received in both DEP 4305 and DEP 4304.

DEP 4404 Adulthood and Aging
Department: Psychology
3.0 sh (may not be repeated for credit)

Physiological, psychological, sociological and economic aspects for young, middle and old adulthood presented within a multidisciplinary perspective. Lifespan objectives are emphasized, including development as a life-long process, with multiple determinants of change, and correspondingly, multiple alternatives for change. Successful aging is also emphasized. Credit may not be received for DEP 4404 and either DEP 4402 or DEP 4401.

DEP 4798L Laboratory in Child and Adolescent Development
Department: Psychology
1.0 sh (may not be repeated for credit)
Prerequisite: EXP 3082 and EXP 3082L; DEP 4305
Co-requisite: DEP 3103 or DEP 4305 (or as prerequisite)

Students will apply knowledge acquired in the Child Development and/or Psychology of Adolescence courses to develop research strategies that take into consideration the unique challenges in conducting research with children and adolescents. Use of archived data for exercises with opportunities to develop observation and analysis skills.

DEP 5055 Developmental Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Representative theories of development; methodological issues in developmental research; study of research knowledge in selected areas of developmental psychology. One undergraduate or graduate course in the area of developmental is required.

EAB - EXPERIMENTAL ANALYSIS OF BEHAVIOR

EAB 4704 Introduction to Behavior Modification
Department: Psychology
3.0 sh (may not be repeated for credit)

Principles and practical application of behavior modification techniques in a wide variety of settings: school, home, medical and business. Especially appropriate for non-psychology majors.

EAB 5705 Advanced Behavior Modification
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: EXP 4404

Experimental psychology literature surveyed for relevant theories and techniques for dealing with problems in human behavior in a variety of settings including home, school, business and clinic.

EAB 5738 Behavioral Medicine
Department: Psychology
3.0 sh (may not be repeated for credit)

Application of psychological expertise to problems in medicine. Emphasis primarily on role of behavioral principles and techniques in the treatment of medically related complaints and traditional psychosomatic disorders.

ECO - ECONOMICS

ECO 2013 Principles of Economics Macro
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Introduction to economics with emphasis on the study of aggregate economic activity, national income, price level determination, and economic growth and development. (General Studies Course: SS/SOC)

ECO 2023 Principles of Economics Micro
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Introduction to economics with an emphasis on the determination of prices in the market economy and their role in allocating commodities and economic resources to various users. Study of market structure and efficiency. This course is recommended to be taken after ECO 2013.

ECO 3003 Principles of Economic Theory and Public Policy
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Survey and analysis of contemporary economic theory and public policy. Available to non-business majors only.

ECO 3101 Intermediate Microeconomics
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Economic activity of individual economic units as consumers, resource owners and business firms. Analysis of consumer motivation as the basis of demand theory. Study of how business firms determine what to produce, how to produce at least cost, how to maximize profits, and how to distribute products. Monopoly, oligopoly, imperfect competition, and the different market conditions for resources are studied to present how the optimum use of each resource is determined by the firm.

ECO 3203 Intermediate Macroeconomics
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

National income accounts. Aggregate supply and demand functions. Savings and consumption functions. The multiplier, the accelerator, marginal efficiency of capital, and determinants of interest rate. Problems of growth and full employment.

ECO 3223 Money and Banking
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023

Monetary and financial systems of the United States; organization and function of financial institutions including the Federal Reserve System; problems of money, prices, interest, credit, national income, and employment; international finance; recent monetary and financial trends.

ECO 4401 Introduction to Mathematical Economics
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2023 and MAC 2311

Links basic mathematical tools with topics in economics. It provides illustrations of the use of those tools in analyzing practical problems faced by households and firms in making economic decisions.

ECO 4431 Business and Economic Forecasting
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023, ECO 2013 and ECO 2023 or ECO 3003

Provides the student with alternative forecasting techniques with applications to processes that occur in business and

economics. Students will learn what are the typical forecasting problems in business and economics, what are the tools that can be used for forecasting purposes, how these tools are used in practice (the mechanics), and how they are applied to particular business and economic problems (the application). Concentrates on conditional forecasts using econometric methods and time series models including smoothing methods and Box-Jenkins ARIMA models.

ECO 4704 International Trade and Commercial Policy
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Reason for trade. Analysis of U.S. exports and imports. Commercial policy, foreign investments, and changing trends in world trade. Financing and management of business ventures overseas.

ECO 4941 Economics Internship
Department: Marketing & Economics
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ECO 2013 and ECO 2023

Supervised field practicum in economics related position. May include activities in one or more functional areas of economics (research, forecasting, business cycles, money & banking, labor, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major course(s) and permission is required.

ECP - ECONOMIC PROBLEMS AND POLICY

ECP 4160 Economic Demography and Aging Markets
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 or ECO 3003

Uses basic models and theories from principles of economic classes to analyze the economic aspects of aging. Topics include the following: causes of an aging society; economic implications of an aging population on younger as well as older persons; dependency ratios; wealth, labor markets and the decision to work in old age; analysis of the role of private and public pension/annuity systems (including Social Security) on the economic status of older adults; and the role of intergenerational transfers and bequests on retirement decisions. Offered concurrently with ECP 5162; graduate students will be assigned additional work. Credit may not be received in both ECP 4160 and ECP 4114.

ECP 4302 Environmental Economics and Policy
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Involves the student in the study of a broad range of environmental problems and the appropriate analysis of policy responses. Specific environmental issues include declining urban air quality, global warming, the effect of development on water systems and contamination from waste disposal systems. Traditional environmental regulations and policies are analyzed and contrasted with current, cutting-edge policies aimed at improving the environment.

ECP 4413 Industrial Economics
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2023

Covers economic aspects of the behavior of firms in the United States including degree of concentration, price discrimination, competitive practices, strategic behavior, and regulated industries. The material covered will help students to understand how firms can continue to maintain high profits, how competition might lead to concentration, and how the government serves as a regulator in the economy. Credit may not be received in both ECP 4413 and ECP 4403.

ECP 4613 Urban and Regional Economic Development
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Contemporary urban and regional issues such as crowding, congestion, pollution and crime have long been the subject of political, moral and social debate. In order to understand and work towards solutions to these problems a command of economic theory and its relevant applications is essential. Takes simple economic principles and applies them to these pressing social issues including those found in the Gulf Coast area of Northwest Florida. In each case, various alternative solutions are discussed in the context of scarcity of resources, a fundamental principle of economics. Offered concurrently with ECP 5607; graduate students will be assigned additional work.

ECP 4703 Managerial Economics
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Develops tools of economic analysis in operating a business firm, including applied microeconomic tools designed to aid decision makers in pricing, reducing firm costs and identifying areas for firm expansion.

ECP 5162 Economic Demography and Aging Markets
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 or ECO 3003

Uses basic models and theories from principles on economics classes to analyze the economic aspects of aging. Topics include the following: causes of an aging society; economic implications of an aging population on younger as well as older persons; dependency ratios; wealth,

labor markets and the decision to work in old age; analysis of the role of private and public pension/annuity systems (including Social Security) on the economic status of older adults; and the role of intergenerational transfers and bequests on retirement decisions. Offered concurrently with ECP 4160; graduate students will be assigned additional work. Credit may not be received in both ECP 5162 and ECP 5118.

ECP 6705 Advanced Managerial Economics
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: QMB 6305

Concepts of competition as they relate to business management policies and practices; profit goals and measurement problems; multiple product policy; demand analysis; cost concepts; pricing problems; case studies. Contains a portfolio project.

EDA - EDUCATIONAL ADMINISTRATION

EDA 5191 Leadership in Education: School Improvement Theory and Practice
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Leadership theories and planning models which have been developed through studies in education, business, industry, and the military will be examined. Application of these will be made to educational practices with a focus on continuous improvement and on the school improvement process.

EDA 5198 Community Partnerships
Department: COP Graduate Education
1.0 sh (may not be repeated for credit)

Community and Stakeholder Partnerships is a standard that identifies the skills and knowledge base needed by high performing leaders in the area of community relations. Participants will identify major opinion leaders in the community and their relationships to school goals and programs. Models of shared decision making will be reviewed and applied to foster sensitivity to allowing shared decision making with appropriate stakeholders. Participants will realize the methods and the need for shared responsibility for student and school success.

EDA 6061 Educational Organization and Administration
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Examines the structure, organization and management of modern education. Emphasis is upon basic theories, principles and competencies in educational administration.

EDA 6063 Introduction to Educational Leadership
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

An introduction for graduate students to the educational leadership program. Major topics will be leadership, William Cecil Golden Modules, Code of Ethics, communication-both verbal and nonverbal, and interpersonal skills. Permission is required.

EDA 6222 Administration of School Personnel
Department: COP Graduate Education
2.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Focus is on the improvement of educational programs through the proper management of human resources. Emphasis is upon recruitment, selection placement, and evaluation of school personnel.

EDA 6232 Law and Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Examines law and its relationship to education. Students study constitutional law, legislative enactments, school policies, and the relationships among these aspects of school law as they pertain to administration. Tort liability, due process for students, corporal punishment, teacher contracts, and other law relating to authority and responsibility of teachers and administrators are included.

EDA 6240 Introduction to School Finance
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Focus is on principles, trends, and practices in financing public education, including federal, state, and local financial support programs. School finance as related to taxation and other areas of school finance is included. Fiscal policies, planning, and management as related to the total education program are central themes.

EDA 6503 The Principalship
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Focus is on problems, practices, and theories pertinent to the administration of building level programs in elementary, middle, and secondary schools. Includes planning, staffing, implementing, and evaluation techniques needed to administer a school program.

EDA 6940 The Principalship/Internship
Department: COP Graduate Education
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

A two-semester field experience in the administration of building-level education programs. Focus is on applying education management theories and best practices relevant to elementary, middle, and secondary school principals. Graded on satisfactory/unsatisfactory basis only. Permission is required.

EDA 7190 Leadership in the Professional Literature
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Student will critically examine leadership roles and develop an awareness of effects of leadership in particular circumstances by exploring classic readings from the humanities in a seminar setting. Students will: 1) compare and contrast classic descriptions of the roles of educational leaders with current educational research best practices related to leadership, and 2) analyze and evaluate leadership behavior under adverse conditions and in situations which require high performance.

EDA 7217 Effective Communication Techniques
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDS 6105

Broad based study of communication skills and techniques, both interpersonal and media oriented, that emphasize strategies used by outstanding educational leaders within and outside the educational domain.

EDA 7423 School Reform: Research to Practice
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Covers the use of research in determining the relationship of school administration to the community; educational decision-making in the context of local politics; community analysis; public relations; public participation in educational planning; school advisory councils; dealing with parents; and implications for school administrators and boards of education.

EDA 7931 Seminar with High Performing Educational Leaders
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides exposure for educational leadership students to high performing educational leaders. Students will interact with high performing leaders, study current research in educational leadership, develop group experiences in theoretical problems and solutions, and spend observation time in the work site of a high performing educational leader.

EDA 7985 Dissertation Research Design Seminar
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Reviews research design concepts in the context of the proposed dissertation topic. Students work with the instructor of record (and involve the doctoral committee chair) to write a comprehensive problem statement, produce a comprehensive literature review, and develop a solid methodology for the study. Development of a preliminary Human Subject (IRB) application is another product. 40sh of doctoral course work is required prior to enrolling in this course and permission is required.

EDE - EDUCATION: ELEMENTARY

EDE 3942 Field Experience I
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDE 4200
Co-requisite: EDE 4200

Field experience in an elementary school setting integrating reading standards and ESOL competencies across the curriculum through planned and designed course assignments. Includes a minimum of 50 hours in an elementary field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - LEP, and students at risk for school failure). Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDE 3948 Service Learning Field Study II
Department: Teacher Education
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

EDE 3949 Cooperative Education
Department: Teacher Education
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of the director of Cooperative Education is required.

EDE 4200 Planning and Curriculum I
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to assist students to learn basic planning and instructional skills in preparation for teaching. Course also includes essential mathematics skills requisite to the Florida Teacher Certification Exam. Students will implement the knowledge gained through lower division content-specific courses and prepare for the methodological courses in the teacher education program.

EDE 4201 Planning and Curriculum II
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDE 4200, and a minimum of two of the three methods courses (LAE 3314, MAE 4310, and SCE 4310).
Co-requisite: One of the three methods courses (LAE 3314, MAE 4310, and SCE 4310).

Designed to assist prospective teachers to use their knowledge of content and pedagogical methods as a basis for developing skills in planning integrated elementary curriculum. Students will implement the knowledge gained through lower division content-specific courses and upper division methods courses to create interdisciplinary units of instruction that are designed to facilitate elementary children's learning across all content areas. Emphasis will be placed on creating developmentally appropriate units that meet the needs of both elementary and primary children, taking into account Gardner's multiple intelligences; and the special needs of ESOL and exceptional students. Additionally, demonstration teaching, and constructing and scoring classroom assessments that allow children to show what they know and understand are a focus of the course work.

EDE 4302 Instruction, Management, and Assessment
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Strategies for managing the classroom, instruction and evaluation as they relate to teaching the essential school competencies.

EDE 4421 Educational Assessment
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

EDE 4944 Field Experience 2
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Field experience in a elementary school setting includes integrating reading standards and ESOL competencies across the curriculum through planned and designed course assignments. Includes a minimum of 50 hours in an elementary field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - LEP, and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDE 4949 Cooperative Education
Department: Teacher Education
0.0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on a satisfactory/unsatisfactory basis only. Master level student and permission of director of Cooperative Education is required.

EDE 6206 Integrated Curriculum and Instruction/Elementary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

An advanced curriculum course for graduate elementary level education students. Format is a combination of classroom instruction and student engagement focusing on integration of the content areas and a project in which the student applies learning and conducts research. The emphasis of instruction is integration, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, Sunshine State Standards, and assessment strategies.

EDE 6268 School Involvement and Community Relations
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Techniques and strategies for developing and implementing effective home, school, community involvement programs at the elementary level. Emphasis will be placed on materials and techniques for communicating effectively with families

from a variety of cultural backgrounds and the implications for industrial, labor and community relations as they impact the elementary level.

EDE 6303 Teaching Science and Social Studies in the Elementary School
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Assists teachers in developing competence and confidence needed to teach science and social studies in the elementary classroom. Focuses on (4) primary components of understanding science and social studies teaching: 1) the nature of science and the social sciences, the activities of individuals who work in these fields and their relationship to elementary curricula, 2) the role of the child as scientist and student of the sciences, 3) the role of the child as a citizen, historian and learner of the social sciences, 4) the role of the teacher in facilitating children's learning.

EDE 6305 Graduate Kodaly Method
Department: Music
3.0 sh (may not be repeated for credit)

Offers the student the opportunity to study the Kodaly Method of teaching elementary students. The course will take an in-depth look at training young singers using the Kodaly Method and will include a brief history of the method and an update on current practices. Permission is required.

EDE 6482 Research Practicum
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Identification of a problem in the area of Elementary Education review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Students successfully completing this course will be allowed to register for Action Research.

EDE 6506 Classroom Management for Elementary Environments
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides an in-depth understanding of the interactions among the social, emotional, and cognitive characteristics of the pre and early adolescent and effective management of elementary classroom student and behavior.

EDE 6521 Practical Applications and Issues in Classroom Management: Elementary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for elementary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group, and large groups in student respective grade level or educational setting.

EDE 6911 Action Research
Department: Teacher Education
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EDE 6482

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Elementary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

EDE 6941 Graduate Methods/ESOL/Reading Practicum: Elementary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL and reading strategies is included.

EDF - EDUCATION: FOUNDATIONS AND POLICY STUDIES

EDF 1005 Introduction to Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Consideration of career opportunities in the field of education, including clinical experiences in selected agencies/institutions.

EDF 2085 Teaching Diverse Populations
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides students with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. Attention will be given to teaching all children about ethnicity in a pluralistic society. Field experiences and examination of educational materials will enhance the students' understanding of multiculturalism. Meets Multicultural Requirement. Credit may not be received in both EDF 2085 and EDG 2701.

EDF 3234 Applied Foundations of Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Principles of growth, development and learning in the context of teaching in the schools of today. Methods of formal and informal assessment, measurement and evaluation are addressed and the ability to analyze educational phenomena in America and other countries from interpretive, normative and critical perspectives is developed. May include observation/participation in educational settings.

EDF 5255 Classroom Management: Harry Wong's Approach
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides students with the opportunity to gain knowledge and skills to practice classroom organization and structure to maximize student learning time. An end of course product will be a binder containing a personal classroom management plan.

EDF 6149 Experiential Education Leadership
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Emphasizes the principles of experiential education and is designed to teach students how to design, implement, evaluate, and lead instruction of high and low ropes challenge programs. Students will learn basic and advanced techniques in challenge programming and how to teach these skills to others.

EDF 6218 Psychological Foundations for Education: Learning and Instruction
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines current theories of learning, behavior, cognitive development, and instruction and their practical application in educational practice. Beyond theories and their application will explore current issues in human development and learning. Develops knowledge and skills for determining an appropriate theoretical framework from which to investigate and solve education problems. Students complete a review of research in their area of emphasis to examine an issue in depth and apply their findings to educational practice. Recommended: Educational Statistics I.

EDF 6223 Positive Behavioral Change and System Support in Educational Settings
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6225, EDF 6226

Positive behavioral support strategies, establishing system support for behavioral change, documenting behavioral change using single case design methodology in educational settings. Relation between behavior analysis, single case design, and best practices in education will be discussed.

EDF 6225 Foundations of Applied Behavior Analysis in Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

A basic introduction to behavior analytic principles, definitions, characteristics, processes, and concepts in the field of education. Includes a review of the national legislation that mandates the use of ABA in educational settings.

EDF 6226 Behavioral Assessments, Interventions, and Outcomes in Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6225

Behavioral assessment, selecting behavioral outcomes, selecting behavioral strategies, and ethical and professional standards issues relevant to the practice of behavior analysis in educational settings.

EDF 6404 Educational Statistics I
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Designed as an entry level course in statistics and covers both descriptive and inferential statistical techniques to solve applied research problems. Emphasis is also placed on using statistical software packages and will cover the most widely used statistical procedures in education.

EDF 6442 Assessment for Educational Leaders
Department: COP Graduate Education
1.0 sh (may not be repeated for credit)

Lead organizations to apply and create sound classroom assessment and standardized testing strategies.

EDF 6460 Foundations of Measurement
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides an understanding of the nature of instrument and test development and focuses on the information and skills needed to design, develop, analyze, and interpret tests and instruments; the use of testing or instrument results in planning, monitoring, and evaluating instruction or programs; and to evaluate student or program progress. Intended to provide a foundation in testing and instrument development skills for those who work in a variety of applied settings.

EDF 6464 Applied Program Evaluation
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides an introduction to program evaluation design, development, and implementation. Students will become familiar with a wide range of evaluation strategies, as well as how to interpret, use and communicate formative and summative evaluation results. These skills will be practiced through an applied research focus on using qualitative and quantitative data collection and analysis strategies to develop organizational accountability systems.

EDF 6475 Qualitative Research I - Methods
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6481

Enables graduate students to comprehend and apply new research paradigms, strategies, and techniques to better understand social change and cultural settings. Qualitative research concepts, theories, and methods offer an empirical basis to explore nonnumeric data. Students will experience and practice a variety of qualitative applied research techniques designed to enhance learning.

EDF 6481 Educational Research
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Develops skills for evaluating and for conducting applied research studies in an appropriate area of emphasis. Includes strategies of research appropriate for particular area of emphasis and methods appropriate for those strategies. Students are required to select a problem, perform a review of the research literature, plan a research study, and write a research proposal. Completion of EDF 6404 and EDF 6218 is recommended prior to taking this course.

EDF 6602 Trends and Issues in Education: Social, Multicultural, Historical and Philosophical Analysis
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Enables students to develop skills as empowered persons and professionals and use critical and analytical thinking skills to demonstrate an understanding of the history and philosophy of education and an increased awareness of multicultural and other critical issues in education.

EDF 6691 Issues in Teacher Education: A Bio-Psycho-Social Understanding
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines current issues in education from a multi-perspective point of view. Issues may include changes in school achievement, standardized testing, motivation, social, economic, and political pressures, character education, population make-up exceptionalities, new technologies, and the role of the public school in society. Will focus on understanding the biological, psychological and social factors that inform these issues.

EDF 6725 Critical Issues in American Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Major issues in American education which confront educational leaders. Problems growing from these issues are considered.

EDF 6915 Action Research for Educational Leaders
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Guides future educational leaders in the process of sound action research in order to support and sustain positive change to enhance student achievement in K12 schools.

EDF 6943 Supervised Experience in Single Case Design
Department: Teacher Education
3.0 sh (may be repeated for up to 9.0 sh of credit)

Supervised field experience of positive behavioral support implementation in educational or related settings evaluated using single case designs. Topics covered will include the ethics and philosophy of positive behavioral support. Graded on satisfactory/unsatisfactory basis only.

EDF 7191 Psychological Foundations for Education: Cognition, Curriculum, and Instruction
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Explores the traditional and contemporary theories of cognition and merges them with educational practices. Examines the ways theories of cognition inform instructional theories and models and informs teaching and learning in specific content areas. Provides students with an opportunity to explore multiple perspectives of learning that enhance their ability to understand educational goals and processes. Completion of EDF 6218, EDF 6481, and EDF 7407 is recommended prior to taking this course.

EDF 7407 Educational Statistics II: General Linear Model
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6404

Designed as an intermediate course in statistics for students who work in applied settings. Emphasis is on the introduction of more complex topics such as regression and the various ANOVA models, and in developing knowledge and skill in the appropriate techniques and application of various statistical software packages. Permission is required.

EDF 7437 Measurement and Single Case Design
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Measurement of behavioral data, data display, data interpretation, experimental evaluation of interventions, and ethical considerations of applied behavior analysis and research in educational settings. This course specifically addresses the function of Applied Behavior Analysis as applied to individuals with varying exceptionalities and particularly focuses on those diagnosed with Autism Spectrum Disorders. Continuous and accurate data collection, data interpretation, evaluation of intervention, and ethical considerations are crucial components to competent and responsible intervention for individuals on the Autism Spectrum.

EDF 7468 Advanced Program Development and Evaluation
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6464

Provides graduate students the opportunity to advance their skills in social program evaluation beyond the introductory level through an in-depth examination of leading evaluation approaches. Students will be encouraged to critically examine and discuss current and emerging variations in theoretical evaluation development. These relationships will be analyzed through an applied research perspectives designed to illuminate and evaluate the effectiveness of organizational program strategies dealing with societal concerns. Grant funding methods will be introduced as an intervention tool in this process.

EDF 7476 Survey Research
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 7407, EDF 6475

Designed as an entry level course in survey research and includes design and selection of questionnaires and interviews as data collection instruments in both quantitative and qualitative research that is conducted in applied settings. Permission is required.

EDF 7477 Qualitative Research II - Theory
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6475

Focuses on major perspectives in contemporary social theory so as to attune students to the diverse connections between social theory and qualitative research. Covers the intersecting perspectives of feminist, postmodernist, social constructionist, multiculturalists, hermeneutic, and other theorists. Through practice exercises it provides students with opportunities to apply these perspectives to small samples of qualitative data in preparation for Qualitative Research III - Analysis. Finally in conjunction with Qualitative Research I and III this course equips students to undertake qualitative inquiry in their dissertations without needing further substantial preparation.

EDF 7478 Qualitative Research III - Analysis
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6475

Provides doctoral students advanced instruction to qualitative research analysis. Students are expected to have developed an understanding of their research skills in qualitative methodologies prior to enrollment. Will assist students in applying their methodological skills to their theoretical and philosophical orientations. Qualitative data analysis software (QDAS) will be used as a tool to enhance the research analysis process. Students are expected to work with their own research data through applied practical applications.

EDF 7483 Exploratory Quantitative Data Analysis
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 7407

Designed as a practical experience in quantitative data preparation for analysis. Emphasis is on making the transition from coding and data entry to final output for manuscript preparation using the major statistical software packages in education. Permission is required.

EDF 7573 Contemporary Curriculum Issues and Theories
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Explores curriculum conceptions, contributions to curriculum decisions, issues and dilemmas in curriculum development, proposals for the organization of curriculum choices (both past and present), and analysis of curricular reforms. Theoretical foundations underlying curriculum considerations and implications of these for curriculum decision-makers at all levels.

EDF 7638 Social Change and Reform
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

The dynamics of social and cultural change in democratic societies with a special focus on social movements and collective behavior. Practical methodologies in common use among activist and other agents of social change. Provides participants with opportunities to develop and apply some social-change skills. Permission is required.

EDF 7659 Innovative Curriculum and Pedagogical Approaches

Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides students with opportunities to review, discuss and implement innovative curriculum and pedagogical strategies that connect school and community learning environments.

EDF 7685 Educational Foundations: A Philosophical and Multicultural Analysis
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Aims to broaden and deepen students' awareness of various educational philosophies and their influences in everyday classroom practice. Emphasis will be on the pluralism and diversity of educational ideas, the practical implication of such ideas, development of critical and analytical thinking and open mindedness. Completion of EDF 6602 is recommended prior to taking this course.

EDF 7944 Advanced Single Case Design in Applied Settings
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 7437

Apply knowledge and skills of positive behavioral support and single case design to an identified problem in an educational setting. Evaluate programs of behavioral support and collaborative system support using single case designs.

EDF 8195 Psychological Foundations in Education: Motivation for Learning and Performance
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6218, EDF 6475, EDF 6481, EDF 7407

Analyze, synthesize, and apply theories of motivation and learning which have implications for professionals in today's workforce. An emphasis will be placed on merging theories with contemporary education and training issues and practices through the use of relevant research reviews culminating in the design of several research projects. Study the influence of motivation and learning to suggest appropriate applications. Focus on building a strong knowledge base and a firm foundation in the motivational constructs relevant to education and training environments. Apply concepts from human learning, educational research, and statistics and measurement in analyzing and synthesizing current research and application. Students will use empirical and referred research as the primary source of current information and development of knowledge and understanding of motivational constructs and their application. Work toward developing expertise in motivational theories and their application of education and training settings, analyzing measures of motivational constructs for use in research, and conducting exhaustive reviews of research on a topic.

EDF 8406 Educational Statistics III: Multivariate Analyses
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 7407

Provides the student with the necessary skills required to conduct educational research at an advanced level. Emphasis is placed on selecting the appropriate multivariate technique for a particular purpose and given data set, and the interpretation of statistical output generated from the major statistical packages. Permission is required.

EDF 8411 Factor Analysis
Department: COP Graduate Education
1.0 sh (may not be repeated for credit)
Prerequisite: EDF 8406

Designed to provide instruction in factor analysis and includes such topics as principal components, exploratory factor analysis, criteria for factor extraction and retention, factor rotation, loading interpretation, and impact of sample size on factor analysis. Emphasis is on practical applications using the major statistical packages for data from applied settings. Permission is required.

EDF 8412 Structural Equation Modeling
Department: COP Graduate Education
1.0 sh (may not be repeated for credit)
Prerequisite: EDF 8406

Designed to provide instruction in LISREL (linear structural relations) and includes such topics as regression models, path analysis, measurement models, confirmatory factor analysis, path analysis with latent variables and analysis of ordinal variables. Emphasis is on practical applications using LISREL for data from applied settings. Permission is required.

EDF 8446 Instrument Development and Validation
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 8406

Provides an understanding of the nature of measurement as well as the underlying theory and methodology of reliability estimation and test validation. Emphasis is on applied skills such as the conceptualization, development, and validation of instruments for assessment, research, and evaluation. Topics include the logical empirical, and statistical models of measurement processes with emphasis on scaling, reliability and validity. It will function as both a seminar and practicum within which the student will acquire applicative skills in the process of providing evidence of instrument reliability and validity. Permission is required.

EDF 8937 Teaching Seminar in Higher Education I
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides doctoral students teaching experience in higher education through a teaching assistantship. Each assistant will lead a small group of research students in qualitative research fieldwork. The seminar aligns with a three-course sequence in Qualitative Research for students in the Ed.S. and Ed.D. programs. Each course in the sequence is taught at multiple sites from the distance learning classroom on the Pensacola campus. At each site teaching assistants participate in the delivery of each class and facilitate group discussion therein. This seminar, thrice required of these teaching assistants, furthers their competence in qualitative research while enabling them to work effectively as facilitators with their small fieldwork groups of graduate students. Graded on satisfactory/ unsatisfactory basis only. Permission is required.

EDF 8938 Teaching Seminar in Higher Education II
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 8937

Provides doctoral students teaching experience in higher education through a teaching assistantship. Each assistant will lead a small group of research students in qualitative research fieldwork. The seminar aligns with a three-course sequence in Qualitative Research for students in the Ed.S. and Ed.D. programs. Each course in the sequence is taught at multiple sites from the distance learning classroom on the Pensacola campus. At each site teaching assistants participate in the delivery of each class and facilitate group discussions therein. This seminar, thrice required of these teaching assistants, furthers their competence in qualitative research while enabling them to work effectively as facilitators with their small fieldwork groups of graduate students. Graded on satisfactory/ unsatisfactory basis only. Permission is required.

EDF 8939 Teaching Seminar in Higher Education III
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 8938

Provides doctoral students teaching experience in higher education through a teaching assistantship. Each assistant will lead a small group of research students in qualitative research fieldwork. The seminar aligns with a three-course sequence in Qualitative Research for students in the Ed.S. and Ed.D. programs. Each course in the sequence is taught at multiple sites from the distance learning classroom on the Pensacola campus. At each site teaching assistants participate in the delivery of each class and facilitate group discussions therein. This seminar, thrice required of these teaching assistants, furthers their competence in qualitative research while fieldwork groups of graduate students. Graded on satisfactory/ unsatisfactory basis only. Permission is required.

EDF 8980 Dissertation
Department: Teacher Education
1.0-6.0 sh (may be repeated for up to 18.0 sh of credit)

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Teacher Education Specialization. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission are required.

EDG - EDUCATION: GENERAL

EDG 3323C General Methods for Teaching K-12 Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)

General methods of planning, presenting and evaluating instruction, incorporating principles and skills of effective teaching required of all Florida teachers. Intended for non-education majors. Students will receive instruction in Reading Endorsement Competency 2 and strategies for working with ESL and diverse learners.

EDG 4048 Contemporary Issues in Public Education
Department: Teacher Education
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

An overview of current public school issues in the state of Florida. Is intended for individuals planning to pursue an alternative route to obtaining state certification as a teacher in the Florida public schools. Credit may not be received in both EDG 4048 and EDM 4404.

EDG 4373 Elementary and Special Education Integrated Arts
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Integrates the musical arts, visual arts, and kinesthetic arts/health with the reading, language arts, science, and mathematics curriculum as a basis for instruction. Students learn discipline specific instructional techniques, activities, and content knowledge.

EDG 4936 Senior Seminar
Department: Teacher Education
2.0 sh (may not be repeated for credit)
Prerequisite: EDF 3234
Co-requisite: EDG 4940

Integrates theory, and general professional preparation with actual school practice. Prepares student for achieving initial certification and continuing success in the classroom.

EDG 4940 Student Teaching
Department: Teacher Education
3.0-12.0 sh (may be repeated for up to 12.0 sh of credit)

Minimum of ten weeks of supervised teaching in a public or private school. Student Teaching assignments will be made by the Division of Teacher Education Field Placement Coordinator. Students are not allowed to take additional coursework or pursue employment during the student teaching experience without prior approval from the Teacher Education Field Placement Coordinator. Graded on a satisfactory/unsatisfactory basis only.

EDG 4941 Teaching Internship I
Department: Teacher Education
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Co-requisite: EDG 4308, EDG 4324, EDM 4320.

Phase I of a year-long supervised teaching experience in public and private schools. (Students will register for this series in successive semesters.) Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/ Admission to Student Teaching).

EDG 4942 Teaching Internship II
Department: Teacher Education
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Co-requisite: EDG 4308, EDG 4324, EDM 4320.

Phase II of year-long, supervised teaching experience in public or private schools. (Students will register for this series in successive semesters). Graded on satisfactory/unsatisfactory basis only. (See Teacher Education/Admission to Student Teaching).

EDG 5042 Alternative Certification: Ethics
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Teacher adheres to the Code of Ethics and Principles of Professional Conduct of the Education Profession in Florida.

EDG 5250 Principles of Curriculum Development
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Emphasis on school curricula, underlying theories, and strategies for improvement make up the foundation for curricular reform. Students intending to meet SDOE certification requirements should select specialization areas. The specialization areas are (a) early childhood/ primary education, (b) middle school education, (d) secondary school education, and (e) exceptional student education.

EDG 5289 Alternative Assessment of At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Introduces student of different alternative assessment instruments to evaluate student performance of at-risk populations. Projects are designed to assist in the development of classroom assessment instruments for their specific curriculum. Credit may not be received in both EDG 5289 and EDG 5287.

EDG 5332 Principles of Instructional Design & Product Development
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Selected concepts from communication, motivation, learning theory, and principles of instructional design are examined as a basis for developing instruction. Students develop a learning package utilizing a theoretically based design.

EDG 5358 Alternative Certification: Continuous Improvement
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher realizes that he/she is in the initial stages of a lifelong learning process and that self reflection is one of the key components of that process. While his/her concentration is, of necessity, inward and personal, the role of colleagues and school- based improvement activities increases as time passes. The teacher's continued professional improvement is characterized by self-reflection, working with immediate colleagues and teammates, and meeting the goals of a personal development plan.

EDG 5366 Investigative Strategies and Empirical Foundations in Learning and Development
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed for graduate students in Teacher Education. Examines the empirical foundations of teacher education, investigative strategies and data sources used to study issues in teacher education. Students will identify a possible area of research in their program of study and will select a Faculty Mentor who will assist in the development of their graduate program. Credit may not be received in both EDG 5366 and EDG 5021.

EDG 5411 Anger Control for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Students will examine and identify the nature of anger and aggression and will learn strategies for anger replacement. Students will increase their proficiency in using replacement strategies with at-risk populations.

EDG 5414 Alternative Certification: Critical Thinking
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher is acquiring performance assessment techniques and strategies that measure higher order thinking skills in students and is building a repertoire of realistic projects and problem-solving activities designed to assist all students in demonstrating their ability to think creatively. Permission is required.

EDG 5416 Classroom Management Practices for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Best practices in classroom management and discipline techniques for personnel who work with at-risk populations are explored. Students will develop a classroom discipline plan incorporating strategies successful with at-risk populations.

EDG 5420 Conflict Resolution Strategies for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Introduces to professionals working with at-risk populations, several theoretical concepts and current models for reducing/eliminating conflict within at-risk populations. Students are expected to develop a conflict resolution model for their use. Credit may not be receive in both EDG 5420 and EDG 5403.

EDG 5421 Breaking the Cycle of Violence
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Causes of violent behavior in at-risk populations are examined. Strategies for reducing or eliminating violent behavior will be explored by the students. Development of an action plan for violent behavior reduction/ elimination by the students is required. Credit may not be received for both EDG 5421 and EDG 5404.

EDG 5427 Involving Families of At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Students will explore concerns about parental involvement in the educational process and will identify effective strategies which promote the involvement plans to address some of the deficiencies which occur that inhibit involvement of at-risk parents in the educational process.

EDG 5631 Building Resilience in At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Strategies which promote resilience in at-risk populations will be explored by students. Successful practices will be reviewed involving community and family influences. Credit may not be received in both EDG 5631 and EDG 5406.

EDG 5632 Guidance and Counseling Strategies for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The study of research related to guidance and counseling strategies for at-risk populations. Practical activities are provided to assist students in the implementation of methods that promote a helping/caring milieu for at risk-students.

EDG 5735 Alternative Certification: Diversity
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher establishes a comfortable environment which accepts and fosters diversity. The teacher must demonstrate knowledge and awareness of varied cultures and linguistic backgrounds. The teacher creates a climate of openness, inquiry, and support by practicing strategies such as acceptance, tolerance, resolution, and mediation.

EDG 5940 Graduate Student Teaching
Department: Teacher Education
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Graded on a satisfactory/unsatisfactory basis only.

EDG 6006 Alternative Certification: Knowledge of Subject Matter
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher has a basic understanding of the subject field and is beginning to understand that the subject is linked to other disciplines and can be applied to real-world integrated settings. The teacher's repertoire of teaching skills includes a variety of means to assist student acquisition of new knowledge and skills using that knowledge.

EDG 6007 Foundations of Professional Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

A comprehensive overview of the professional education knowledge base. Coursework will cover a broad range of topics and prepares the student to pass the Florida Teacher Certification Examination for Professional Education.

EDG 6016 Alternative Certification: Communication
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher recognizes the need for effective communication in the classroom and is in the process of acquiring techniques which she/he will use in the classroom.

EDG 6047 Advanced Issues for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Overview of current research and theory related to issues of at-risk populations is presented. Students will explore the roles of family, school, community, and culture to determine the more effective methods of building resilience in at-risk students. Credit may not be received in both EDG 6047 and EDG 6046.

EDG 6071 Alternative Certification: Learning Environment
Department: Teacher Education
2.0 sh (may not be repeated for credit)

The teacher creates and maintains a positive learning environment that fosters active engagement in learning, social interaction, cooperative learning, self-motivation, and manages student behavior.

EDG 6225 Practical Applications and Issues in Assessment
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Development, administration, and scoring of educational tests and assessment devices for determining scope and depth of educational achievement and behavior. Students develop proficiency in the development of tests, rating scales, and alternative assessment devices.

EDG 6237 Setting Academic Goals for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Educational strategies assigned to promote the setting of academic goals by at-risk students are acquired through lecture, group projects, and individual research. Students will develop motivational plans for use with at-risk students. Credit may not be received in both EDG 6237 and EDG 6236.

EDG 6255 Alternative Instruction for At-Risk Students
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Alternative instructional strategies for use with at-risk students will be presented. Students will develop a classroom plan utilizing alternative instructional techniques using Gardner's Theory of Multiple Intelligences as a basis.

EDG 6285 Data Driven Decisions Using Standardized Student Achievement Data
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Learning, Accountability, and Assessment is one of the new standards in Educational Leadership in Florida and it speaks specifically to the use of data in creating a school environment and curriculum that will enhance student learning. High Performing Leaders must monitor the success of all students in the learning processes to promote effective student performance, and use a variety of benchmarks, learning expectations, and feedback measures to ensure accountability for all participants engaged in the educational process. Using data to drive decisions is a critical component of the accountability system currently in place in Florida. Participants will develop skills in determining data needed to make certain decisions; in analyzing data; in communicating information about the decision making process to stakeholders. Specifically for administrators in the K12 educational setting.

EDG 6288 Alternative Certification: Assessment
Department: Teacher Education
2.0 sh (may not be repeated for credit)

The teacher collects and uses data gathered from a variety of sources. These sources include both traditional and alternative assessment strategies. Furthermore, the teacher can identify and match the students' instructional plans with their cognitive, social, linguistic, cultural, emotional, and physical needs.

EDG 6307 Alternative Certification: Role of the Teacher
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher communicates and works cooperatively with families and colleagues to improve the educational experiences at the school.

EDG 6335 Advanced Instructional Design & Product Development
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EDG 5332

Analyzes, synthesizes, and evaluates instructional and learning theories and principles, taking into account a variety of situations and individual differences of learners. Develops a design and development plan and produces related materials accounting for various models of instructional design.

EDG 6336 Alternative Certification: Lesson Planning
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Recognizing the importance of setting high expectations for all students, the teacher works with other professionals to design learning experiences that meet students' needs and

interests. The teacher candidate continually seeks advice/information, and modifies her/his plans appropriately. Planned instruction incorporates a creative environment and utilizes varied and motivational strategies and multiple resources for providing comprehensive instruction for all students. Upon reflection, the teacher continuously refines outcome assessment and learning experience.

EDG 6412 Social Skills Intervention Techniques
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Students will explore current curricula focusing on social skills development and the application to the remediation of at-risk populations. Students will participate in group interaction to develop techniques for delivery of social skills training to targeted at-risk populations.

EDG 6418 Recognizing and Working with Abuse Exposed Youth
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Students explore background theory to better understand the dynamics of at-risk behaviors in abuse-exposed youth. Counseling and recovery techniques believed to be effective in working with abuse-exposed youth will be examined. Communication strategies will be enhanced in class group participation.

EDG 6428 Alternative Certification: Family Relationships
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher uses effective communication strategies and techniques with families and other stakeholders. The teacher works as a team member to promote and achieve school improvement goals and engages in continuous quality improvement of students and school.

EDG 6621 Alternative Certification: Human Development and Learning
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Drawing upon well established human development/learning theories and concepts and a variety of information about students, the teacher plans instructional activities. Credit may not be received in both EDG 6621 and EDG 6362.

EDG 6630 Peer Pressure and Youth Gangs
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Current research related to peer pressure and gang activity is presented. Students will develop research project and action plans which include abatement strategies for at-risk population. Credit may not be received for both EDG 6630 and EDG 6405.

EDG 6633 Drugs and Alcohol
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The causes of alcohol and drug abuse and the identification of effective strategies for reducing or eliminating abuse behaviors are presented. Students will develop an intervention plan for use in reducing abusive behaviors in at-risk populations.

EDG 6655 National Board for Professional Teaching Standards Certification
Department: Teacher Education
6.0 sh (may not be repeated for credit)

Prepares students to develop the portfolio entries required for National Board of Professional Teaching Standards certification. Graded on satisfactory/unsatisfactory basis only.

EDG 6705 Ethnic and Cultural Diversity
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Theoretical and practical considerations for designing diverse, multicultural, and educational curricula are presented. Students will develop curricula for use with remediation of at-risk behaviors in diverse groups.

EDG 6791 Multicultural Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Designed to acquaint students with basic concepts of multiculturalism including theoretical orientations to (1) the study of race and ethnicity in the United States; (2) race and ethnicity in American institutions; 3) race and ethnicity in popular culture and communities; and (4) the future of race and ethnic relations and the impact on teaching and learning in a pluralistic society.

EDG 6915 Action Research for Leaders
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

An action research based course where students complete research projects that integrate leadership theory into practice. Permission is required.

EDG 7070 Managing Learning Environments
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Managing learning environments is required in the educational curriculum and instructional Doctoral program,

with a specialization in teaching and learning. The focus is on developing the skills necessary to become instructional leaders in the 21st century. Management of personnel, students, finances, and community resources is discussed.

EDG 7221 Curriculum Issues and Theories
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Explores various curricula models, issues and dilemmas in curricula development, and approaches to curricula reform. Examines theoretical perspectives as well as the practical ramifications for administrators, instructional supervisors, and classroom teachers.

EDG 7224 Critical Issues in the Academic Curriculum
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines critical issues in curriculum development, with emphasis on issues related to the various academic curricula, their roots, and promising efforts/research to deal with issues. Students will study and discuss the issues that are common and do personal research of literature relevant to their specific academic teaching field and the levels at which they teach.

EDG 7225 Teaching Critical and Social Issues
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides students with opportunities to design curriculum that includes critical, social, and controversial issues and to practice teaching using innovative pedagogical strategies.

EDG 7241 Social Justice and Inequities
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Offers a comprehensive look at inequality and social-justice issues in American society. Using Patricia Hill Collins' notion of a matrix of domination as a central concept, focuses on institutionalized hierarchies and systems of domination both historical and current based on race, ethnicity, sexual orientation, social class, gender, disability, and age, and on how social hierarchies intersect and reinforce each other.

EDG 7303 Analysis of Learning and Teaching Practices
Department: Teacher Education
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Advanced study of theories and research on teaching and learning and their application to instructional practices; emphasis on professional leadership in decision making related to teaching practices and creating or restructuring learning environments.

EDG 7346 Advanced Analysis of Curriculum and Instruction
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Enables students to utilize research based curriculum and instruction models to analyze and evaluate teaching processes for the purpose of improving instructional programs. Skill development in feedback and coaching techniques and strategies effective in orchestrating change in instructional practices will also be a focus.

EDG 7363 Applications of Current Research in Teaching and Learning
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides advanced study of the theoretical knowledge bases, methodologies and applications of current research topics in teaching and learning to a variety of subject areas and educational settings. Required for the doctoral specialization in teaching and learning.

EDG 7458 Analysis of Alternative Assessment Methods
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Advanced study of current theories and research on assessment with emphasis on alternative methods of assessing learning; designing multiple forms of assessment that tap into higher level thinking and allow students to demonstrate knowledge of processes and skills of problem solving and knowledge of concepts.

EDG 7930 Special Topics and Critical Issues in Teaching and Learning
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Advanced study of current topics and issues related to teaching and learning across a variety of classroom lab or alternative settings. Students explore current teaching practices and future needs related to educational programs for learners of various ages.

EDG 7935 Research Design Seminar
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6481 and EDF 7407.

Provides students with an understanding of how to undertake a research thesis. Concepts include format, style, literature reviews, hypothesis formulation, research design and statistical application.

EDG 8980 Dissertation
Department: COP Graduate Education
1.0-18.0 sh (may be repeated for up to 36.0 sh of credit)

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction program. This dissertation will reflect intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required.

EDH - EDUCATION: HIGHER

EDH 5XX0 Assessment Issues in College Student Affairs
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

The philosophy and practice of assessment in college student affairs programming and administration. Issues include the role of assessment in regional accreditation, meeting state mandates, and improved institutional effectiveness. A variety of regional and national reports related to the climate of accountability in higher education will be reviewed and discussed.

EDH 5040 The American College Student: Theories and Trends
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Studies the characteristics of American college students, the effects of the college experience on their learning and personal development, learning and motivation theories that relate to the college student, and critical trends and learning issues for student affairs practitioners related to student services and student development. Will also provide opportunities to practice professional skills.

EDH 6405 Legal Issues in Higher Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Designed to provide students with overview of the legal issues involving the profession of student affairs in higher education. Through course instruction, the study of legal briefs, and assigned test readings, students will gain a basic understanding of the legal issues and principles that confront student affairs professionals. Not designed to provide legal training or advice. Admission to College Student Personnel Administration is required.

EDH 6505 Budgeting, Finance, and Governance in Higher Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Will provide students with a theoretical and practical overview of budgeting, finance, and governance in higher education in general and student affairs specifically. Topics will include budget components and processes, the relationship of strategic planning to budgeting, models for financing the higher education enterprise, and comparative governance models.

EDH 6634 Introduction to College Student Personnel
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Provides a comprehensive introduction to college student personnel administration and its role in American higher education. Introduces philosophical and theoretical concepts; the history of modern student affairs work in higher education; the roles and functions of selected professionals in the field; a review of the skills and competencies required for the professions; and discussion of current issues and concerns relevant to college student services.

EDH 6948 Internship in Higher Education
Department: COP Graduate Education
3.0 sh (may be repeated for up to 6.0 sh of credit)

Consists of two components, one involving practical application and the second involving an approved independent study. Interns will work on one or more projects or activities in an appropriate students affairs or student support services unit. Practical experience must include specified learning outcomes and appropriate documentation of work and learning. The practical experience component will provide the opportunity to observe how a student affairs or student services unit operates and to learn about critical issues, essential knowledge, and applicable skills required to be successful in the field. The independent study portion of the internship will allow development of an area of special interest and expertise. Permission is required.

EDM - EDUCATION: MIDDLE SCHOOL

EDM 3230 Middle School Organization and Curriculum
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examination of the organization and curriculum of contemporary middle school. Interdisciplinary teaming, cooperative learning techniques, advisory roles, testing and evaluations, and classroom management procedures will be discussed.

EDM 3322 Integrated Methods I
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Teacher's role in delivering content specific curricula within the middle school will be the focus. Students will develop ability to construct lesson plans of various types that integrate specialized content across the middle level curriculum. Basic lesson plans for direct instruction, guided discovery, problem-centered learning, and class and

individual projects will be developed. Planning for implementation of cooperative learning, alternative assessment, and verbal techniques that encourage student thinking will be addressed. Students will become familiar with content specific manipulatives, other instruction tools, and ways to organize and communicate information in written and oral modes. Development of the emerging professional at the technical level will be emphasized.

EDM 3942 Field Experience 1
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDM 3230, EDM 3322
Co-requisite: EDM 3230, EDM 3322

This field experience in a middle level school setting includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Students will also complete a minimum of 50 hours in a middle level field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This experience includes: observation, planning , adapting delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficiency - LEP, and students at risk for school failure.) Permission is required.

XXX XXXX
Department: Teacher Education
BLANK sh (may not be repeated for credit)

EDM 4402 Educational Assessment
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments; (3) interpreting standardized assessments commonly used in public schools.

EDM 4943 Field Experience 2
Department: Teacher Education
3.0 sh (may not be repeated for credit)

This field experience in a middle level school setting includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Students will also complete a minimum of 50 hours in a middle level field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This experience includes: observation, planning, adapting, delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - LEP, and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EDM 6235 Integrated Curriculum and Instruction/Middle Level Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Advanced curriculum for graduate middle level education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphases of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

EDM 6245 Curriculum, Instruction and Organization: Middle Level Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examination of the curriculum, instruction and organization of contemporary middle level education. Special needs of the pre-adolescent student as a learner, curriculum organization. Interdisciplinary teaming, cooperative learning and advisory/ counseling strategies will be incorporated.

EDM 6405 School Involvement and Community Relations
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Investigate techniques and strategies for developing and implementing effective home, school, community involvement programs at the middle school level. Emphasis will be placed on materials and techniques for communicating effectively with families from a variety of cultural backgrounds and the implications for industrial, labor and community relations as they impact the middle school level.

EDM 6411 Practical Applications and Issues in Classroom Management: Middle Level Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for middle level classroom management. Develop a knowledge base of classroom practices and application for individual, small group, and large groups in student respective grade level or education settings.

EDM 6911 Action Research
Department: Teacher Education
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EDM 6912

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

EDM 6912 Research Practicum
Department: Teacher Education
3.0 sh (may be repeated for up to 6.0 sh of credit)

Identification of a problem in the area of Middle Level Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

EDM 6944 Graduate Methods/ESOL/Reading Practicum: Middle Level
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Co-requisite: LAE 6325, MAE 6361, SCE 6265, or SSE 6326.

Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations, required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL, and reading strategies is included.

EDS - EDUCATION: SUPERVISION

EDS 6105 Human Relations and Communication in Education
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Theoretical and experiential framework for maximizing human relations and communication within the educational domain including principles of persuasion, public information management, effective communication strategies and personal effectiveness with staff and the public.

EEC - EDUCATION: EARLY CHILDHOOD

EEC 3204 Introduction to Early Childhood Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEC 3704

Basic curriculum principles and the role of the teacher in education of children from infancy to eight years of age. Observation/participation in early childhood education settings.

EEC 3307 Providing for Conceptual Learning of Young Children
Department: Teacher Education
2.0 sh (may not be repeated for credit)
Prerequisite: EEC 3204, EEC 3704, and EEC 3940.

Designed to develop student's concept of a constructivist approach to the teaching/learning process. Includes an understanding of pre-concepts and appropriate methods for corrections of children's misconceptions. Impact of the environment and appropriate environmental designs for the constructivist approach are expected outcomes.

EEC 3704 Right From The Start: Education of the Developing Young Child
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed for the education major, this course has as its focus educational implications of the total development of children, pre-natal through early childhood. Typical and atypical development is addressed from three viewpoints: Age period (pre-natal, infancy, toddler, pre-school, and early elementary), developmental domain (i.e., physical, social, emotional, and cognitive), and educational applications at each age and domain.

EEC 3731 Health/Nutrition/Safety
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to prepare pre-professionals to function skillfully and effectively as teachers/care givers in providing health, safety, and nutritional needs of the young child. Focuses on providing a sound knowledge base in each of the three areas of emphasis and then developing competence related to each one.

EEC 3800 Professional Development Seminar
Department: Teacher Education
1.0 sh (may be repeated for up to 8.0 sh of credit)

Promotes reflective thinking for student empowerment. Through ongoing professional seminars and engagement in a variety of professional workshops on topics related to Early Childhood, students will develop the ability to self-evaluate and reflect on experience for personal and professional development. Students will also initiate and develop a portfolio. The purposes of the portfolio are: (1) to engage in personal self-awareness, evaluation, development and

progress; (2) to encourage interaction with ideas, materials, and peers; (3) to articulate a personal philosophy of Early Childhood Education; (4) to project goals and plan strategies; and, (5) to document development as an empowered person and professional. Students will register for 1 hour credit, Professional Development Seminar, during each semester of enrollment for a minimum total of 4 hours in the program. Graded on satisfactory/unsatisfactory basis only.

EEC 3940 ICFE I - Integrated Curriculum/Field Experience
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Introduces professionals to the myriad service delivery systems of the Early Childhood professional. Students' understanding of the role of inter-agency outcomes related to collaboration and transdisciplinary service delivery models will be developed. In addition, skills dispositions necessary for effective teaming will be developed.

EEC 3941 ICFE I - Practicum
Department: Teacher Education
1.0 sh (may be repeated for up to 4.0 sh of credit)
Co-requisite: EEC 3940

Students will be provided with opportunities to observe and participate in varied service delivery systems including home based, center based, and hospital based serving young children and their families. Minimum of 35 hours; includes seminar, observing, collaborating with early childhood professional in the work setting, and individual project. Graded on satisfactory/unsatisfactory basis only.

EEC 3942 Field Experience 1
Department: Teacher Education
3.0 sh (may not be repeated for credit)

This clinical field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. Under the guidance of highly qualified supervising teachers, students will work with individuals, small groups, large groups and/or the entire class. Students will also continue work begun earlier in their program on their Teacher Development Portfolio (TDP) (TDP) which document Educator Accomplished Practices Competencies and ESOL Performance Standards. Minimum of 100 hours in a Pre-K or Primary educational setting including: observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - (LEP), and students at risk for school failure.

EEC 4301 ICFE II - Integrated Literacy Curriculum
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Instructional materials, procedures and evaluation of nursery, kindergarten and primary-school curricula and instructional strategies with an emphasis on literacy and pre-reading; includes observation/participation in early childhood education settings.

EEC 4302 ICFE III - Integrated Curriculum/Field Experiences
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEC 3942, EEC 4301
Co-requisite: EEC 4943

As the third course in the ICFE sequence, designed to continue the development of understanding, skills and knowledge bases initiated in ICFE I, ICFE II and other associated course work. The focus in ICFE III is to move toward full implementation of integrated curriculum practices. Therefore, emphasis is on planning and implementing an integrated approach to curriculum and assessment/evaluation of children and processes related to the development of developmentally appropriate practices for young children. Specifically ICFE III builds an understanding in the area of development of self and children's potential in all areas. Experiences in early childhood settings are required.

EEC 4408 Home/School/Community Partnerships
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEC 3704 or SOW 3650

Investigates techniques and strategies for developing and implementing effective home, school, and community involvement programs in early childhood settings. Special emphasis will be placed on materials and techniques for communicating effectively with families from a variety of cultural backgrounds.

EEC 4604 Child Guidance and Classroom Management
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides a comprehensive knowledge base concerning child and classroom management. Areas of emphasis include roles of various personnel, organization of the environment to promote appropriate behavior, strategies to develop appropriate behavior and motivation, and related record keeping techniques. Credit may not be received in both EEC 4603 and EEC 4604.

EEC 4613 Assessment and Evaluation for Young Children
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides a comprehensive knowledge base concerning assessment of young children. Areas of emphasis include development of skills in selection, use, and interpretation of developmentally appropriate formal and holistic instruments

and procedures, measurement terms and principles, procedures, and legal requirements for record keeping, use of technology in assessment, and managing an assessment team.

EEC 4943 Field Experience 2
Department: Teacher Education
3.0 sh (may not be repeated for credit)

This clinical field experience includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed assignments. Under the guidance of highly qualified supervising teachers, students will work with individuals, small groups, and a special emphasis on working with the total class. Students will also continue work begun earlier with the total class. Students will also continue work begun in their program on their Teacher Development Portfolio (TDP) which document Educator Accomplished Practices Competencies and ESOL Performance Standards. Minimum of 100 hours in an Early Childhood educational setting includes; observation, planning, adapting, delivering, and evaluating units that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient- (LEP), and students at risk for school failure. Graded on satisfactory/ unsatisfactory basis only.

EEC 6263 Integrated Curriculum Development and Instruction/Early Childhood Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Basis and techniques for making curriculum decisions, survey of curriculum content and programming appropriate for children three to eight years of age; clinical and field-based involvement with development and implementation of practices consistent with diagnostic/prescriptive teaching through individualized instruction. At least one course in early childhood education is required.

EEC 6305 Practical Applications and Issues in Classroom Management: Primary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for primary classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large group in student respective grade level or educational settings.

EEE - ELECTRICAL AND ELECTRONIC ENGINEERING

EEE 3308 Electronic Circuits I
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3111, EGN 3203
Co-requisite: EEE 4308L

Fundamentals of analog electronic circuits and systems. A grade of "C" or better is required in the prerequisites. Credit may not be received in both EEE 3308 and EEL 3304.

EEE 3396 Solid-State Electronic Devices
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3111

Introduction to the principles of semiconductor electron device operation. A grade of "C" or better is required in the prerequisite. Credit may not be received for both EEE 3396 and EEL 3396.

EEE 4306 Electronic Circuits II
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3112, EEE 3308, and EEE 4308L with a grade of "C" (2.0/4.0) or better.
Co-requisite: EEE 4306L (required for EE major only)

Design-oriented continuation of EEL 3304C; feedback on am circuits and applications, digital electronics. A grade of "C" or better is required in the prerequisites. Permission is required.

EEE 4306L Electronic Circuits II Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL 3112, EEE 3308, and EEE 4308L all with a grade of C (2.0/4.0) or better
Co-requisite: EEE 4306

Electronic Circuits II laboratory. A grade of "C" or better is required in the prerequisites. Material and Supply fee will be assessed. Credit may not be received in both EEE 4306L and EEL 4306L.

EEE 4308L Electronics Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL 3117L
Co-requisite: EEE 3308

Electronic instrumentation devices and systems. Material and Supply Fee will be assessed. A grade of "C" or better is required in the prerequisites. Credit may not be received in both EEE 4308L and EEL 4304L.

EEE 4310 VLSI Circuit Design
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEE 3308 and EEL 3701

Analysis and design of digital circuits using MOS and bipolar devices.

EEL - ENGINEERING: ELECTRICAL

EEL 2005C Analog and Digital Electronics
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EGN 1200C

Basic analysis of DC and AC circuits; basic electrical engineering laboratory in instrumentation, devices, and systems.

EEL 2948 Service Learning Field Study I
Department: Electrical & Computer Engineering
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

EEL 3111 Circuits I
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313, PHY 2049
Co-requisite: EEL 3117L, EGN 3203

Basic Analysis of DC and AC electric circuits. A grade of "C" or better is required in the prerequisite(s).

EEL 3112 Circuits II
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3111
Co-requisite: EGM 4313

Continuation of EEL 3111 with emphasis on circuit applications of convolution, the Fourier series, and the Laplace and Fourier transforms. A grade of "C" or better is required in the prerequisite(s).

EEL 3117L Electrical Circuits Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Co-requisite: EEL 3111

Introductory electrical engineering laboratory in electrical instrumentation, devices, and systems. Material and Supply Fee will be assessed. Credit may not be received in both EEL 3117L and EEL 3303L.

EEL 3135 Discrete-Time Signals and Systems
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 4834; either COP 2334 or CIS 3020 with a grade of "C" or better
Co-requisite: EEL 3112 with a grade of "C" or better

Differential equations, discrete convolutions, the z transform, discrete and fast Fourier transforms, digital processing of analog signals, sampling theorem, probability and random signals. A grade of "C" or better (2.0/4.0) is required in all prerequisites.

EEL 3211 Basic Electric Energy Engineering
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3111
Co-requisite: EEL 3112

Analysis and modeling of power system components. Magnetic circuits, energy conservation, transformers, AC and DC rotating machines. A grade of "C" or better is required in the prerequisite(s).

EEL 3472 Electromagnetic Fields and Applications I
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3111 and EGM 4313; both with a grade of C or better

Electric and magnetic fields and forces, Maxwell's equations in point and integral form, plane wave propagation, energy and power. A grade of "C" or better is required in the prerequisite(s).

EEL 3473 Electromagnetic Fields and Applications II
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3472

Maxwell's equations, electromagnetic wave propagation in different media, antennas, waveguides, numerical methods, electromagnetic coupling. A grade of "C" or better is required in the prerequisite(s).

EEL 3701 Digital Logic and Computer Systems
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1114
Co-requisite: EEL 3701L

An overview of logic design, algorithms, computer organization, assembly language programming and computer engineering technology.

EEL 3701L Digital Logic and Computer Systems Laboratory
Department: Electrical & Computer Engineering

1.0 sh (may not be repeated for credit)
Co-requisite: EEL 3701

Practical applications of digital logic. Material and Supply fee will be assessed.

EEL 3948 Service Learning Field Study II
Department: Electrical & Computer Engineering
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

EEL 4201L Electrical Energy Conversion Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL3211

Electric energy conversion, devices and systems.

EEL 4213 Electric Energy Systems 1
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3211

System models for generators, transformers, transmission lines and large-scale power networks. Matrix formulations, power flow and analysis, symmetrical component theory, balanced and unbalanced fault analysis. A grade of "C" or better is required in the prerequisite(s).

EEL 4242 Power Electronic Circuits
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEE 3308 with a grade of C (2.0/4.0) or better.

Circuit topologies, analysis, design, and simulation of electronic circuits such as power supplies and motor drives. A grade of "C" or better is required in the prerequisite(s).

EEL 4242C Power Electronic Circuits
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEE 3308

Circuit topologies, analysis, design and simulation of electronic circuits such as power supplies and motor drives. A grade of "C" or better is required in the prerequisite(s).

EEL 4445 Optics for Engineers
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3472

Nature of light, radiometry, laser basics, interferometry, holography, coherence, polarization, diffraction, fiber optics, Fourier optics. Permission is required. A grade of "C" or better is required in the prerequisite(s).

EEL 4514 Communication Systems and Components
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3112, EEL 3135, EGM 4313
Co-requisite: EEL 4514L

Theory of communication, and applications to radio, television, telephone, satellite, cellular telephone, spread spectrum, and computer communication systems. A grade of "C" or better is required in the prerequisite(s).

EEL 4514L Communication Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Co-requisite: EEE 3308, EEL 4514

Communication circuits and radio frequency instruments, devices, and measurements. Permission is required. A grade of "C" or better is required in the prerequisite(s). Material and supply fee will be assessed.

EEL 4515 Digital Communications
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3112, EEL 3135, STA 4321, EGM 4313. All prerequisites must be completed with a "C" or better.

Covers the following topics related to digital communications in the field of Electrical Engineering: 1. Review of signals, Fourier methods, sampling, etc. 2. Probability and random processes. 3. Quantization. 4. Baseband digital signaling formats. 5. Digital transmission through AWGN channels. 6. Baseband digital signaling through bandlimited channels. 7. Digital bandpass signaling and common formats. 8. Block and convolutional coding. 9. Viterbi algorithm. 10. Trellis coded modulation. 11. System simulation.

EEL 4610 State Variables and Control
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 4657 with a grade of "C" (2.0/4.0) or better.

Development of state-variable approach to linear continuous-time and discrete-time systems with emphasis on the design of feedback control system including stabilizing compensators, state estimators and controllers for tracking and disturbance rejection. A grade of "C" or better is required

in the prerequisite(s). Material and Supply Fee will be assessed.

EEL 4635 Digital Control Systems
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3135, EEL 3701, EEL 4657

A study of the digital computer as a control element, classical sampled data control theory, and application with microcomputers. A grade of "C" or better is required in the prerequisites.

EEL 4657 Linear Control Systems
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3112
Co-requisite: EEL 3135

Theory and design of linear control systems. A grade of "C" or better is required in the prerequisite.

EEL 4657L Linear Controls Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Co-requisite: EEL 4657

Practical applications of linear control theory.

EEL 4663 Elements of Robotics
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 3112

An introductory course in the multidisciplinary field of robotics with analysis and design of robots and robotic tasks. Includes class projects in robot programming and design. A grade of "C" or better is required in the prerequisite(s). Material and Supply Fee will be assessed.

EEL 4712 Digital Design
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 4744
Co-requisite: EEL 4712L

Advanced modular logic design, design languages, "finite" state machines and binary logic. A grade of "C" or better is required in the prerequisite(s).

EEL 4712L Digital Design Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL 4744L
Co-requisite: EEL 4712

Design and applications of advanced digital logic using VHDL. A grade of "C" or better is required in the prerequisite(s). Material and Supply Fee will be assessed.

EEL 4713 Digital Computer Architecture
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 4744

The use of electronic digital modules to design computers. Organization and operation of computers. Hardware/software trade-offs. Design of computer interfacing. A grade of "C" or better is required in the prerequisite(s).

EEL 4713L Digital Computer Architecture Lab
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL 3701 and EEL 3701L
Co-requisite: EEL 4713

Computer design and organization. A grade of "C" or better is required in the prerequisites. Material and Supply Fee will be assessed.

EEL 4744 Microprocessor Applications
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 4834 and EEL 3701 with a grade of "C" or better (2.0/4.0).

Elements of microprocessor-based systems; hardware interfacing and software design for their application. A grade of "C" or better is required in the prerequisite(s).

EEL 4744L Microprocessor Applications Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL 3701L, EEL 4834
Co-requisite: EEL 4744

Practical applications of microprocessor-based systems, software and hardware interface. A grade of "C" or better is required in the prerequisites. Material and Supply Fee will be assessed.

EEL 4750 Introduction to Digital Signal Processing
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)

Fundamentals of filter design and Fourier transforms. Hardware implementation of filters. Simulation of signal processing systems using MATLAB.

EEL 4750L Real-Time Digital Signal Processing Laboratory
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEL 3135, EEL 4744 and EEL 4744L with a

grade of C (2.0/4.0) or better; EEL 4750
Co-requisite: EEL 4750 with a grade of C (2.0/4.0) or better.

Digital processing of analog signals in real-time using floating point digital signal processor chips.

EEL 4759 Digital Image Processing
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: EEL 4834 and EEL 3135 with a grade of C (2/4) or better

An introduction to digital images and digital image processing techniques, including frequency and spatial image enhancement, image restoration, wavelets and morphology.

EEL 4834 C++ Programming for Electrical Engineers
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1114 with a grade of C (2.0/4.0) or better.
Co-requisite: MAC 2311

Develop computer skills and art of writing good computer programs using C and C++ languages. Examples and exercises relevant to Electrical Engineering are used. A grade of "C" or better is required in the prerequisite(s).

EEL 4914C Electrical Engineering Design
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)

Selected design projects involving engineering applications in the various areas of electrical engineering. Laboratory. Senior standing is required. Material and Supply Fee will be assessed.

EEL 4930 Special Topics in Electrical Engineering
Department: Electrical & Computer Engineering
1.0-4.0 sh (may be repeated for up to 6.0 sh of credit)

May be repeated with change of content up to a maximum of 6 credits. Special courses covering selected topics in electrical engineering. Permission is required. A grade of "C" or better is required in the prerequisite(s). (Contact the department for prerequisites).

EEL 4940 Engineering Internship
Department: Electrical & Computer Engineering
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: EEL 3111 or EEL 3701

Practical and significant electrical and/or computer engineering based work experience under approved industrial supervision. Graded on a Satisfactory/ Unsatisfactory basis only. Permission from department co-op advisor is required.

EEL 4949 Co-Op Work Experience
Department: Electrical & Computer Engineering
1.0 sh (may be repeated for up to 4.0 sh of credit)

Practical co-op work under approved industrial supervision. Grading is on S/U basis only. Permission is required.

EET - ELECTRONIC ENGINEERING TECHNOLOGY

EET 1080 Introduction to Engineering Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Students identify applications and issues related to engineering technology environments by describing the use of engineering technology in business and industry. Begins the process of creating ET professionals who will be responsible for working in complex technical organizations.

EET 1940 Practica in Engineering Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Participate in supervised field experiences that introduce students to the profession of engineering technology. Permission is required.

EET 2141C Electronics I
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

Develop competency in basic electronic devices. Theoretical and practical aspects of electronic devices such as diodes, transistors, operational amplifiers, integrated circuits and other semiconductor devices are presented. Hands-on experiences in the lab provide experimental analysis and verifications.

EET 2142C Electronics II
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EET 2141C

Develop competency in basic electronic circuits. Theoretical and practical aspects of electronic circuits such as voltage regulators, filters, wave generation and shaping circuits, multi-vibrators and power supply are presented. Hands-on experiences in the lab provide experimental analysis and verifications.

EET 3038C Advanced Circuit Analysis
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Advanced course in circuit analysis that stresses network theorems; solutions of time and frequency domain problems; magnetic coupling; three phase circuits; transformer theory and impedance matching; two-port parameters. Includes a computer lab to analyze the above circuits. DC and AC courses, offered at Junior and Community colleges under various course numbers are required. An introductory course in programming is also needed.

EET 3218C Control Systems Technology
Department: Engineering and Computer Technology
4.0 sh (may be repeated for up to 5.0 sh of credit)
Prerequisite: MAC 1105

To develop basic knowledge on; controllers and their principles, control loop characteristics, selection, design and development of feedback control systems.

EET 3321C Communication Systems
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Develops competencies in the theory and industrial application of modern communication systems. Introductory course with experiments in transmission systems, waveguides, fiber optics, microwaves, and lasers. Credit may not be received in both EET 3321C and EET 3326C.

EET 3504C Applications of Industrial Electricity and Electronics
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 2054

Electrical circuits, magnetic circuits, apparatus and electronic controls from elementary principles to solution of industrial problems.

EET 3949 Cooperative Education
Department: Engineering and Computer Technology
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of Cooperative Education director is required.

EET 4146 Electronic Circuits and Application Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Application of theoretical concepts in analog electronic circuits and development of electronic projects. Processes involved in the design and development of an electronic project with hands-on experience, including working with electronic circuits and project design techniques such as development of drawing, testing using multism, troubleshooting, and bread board and actually preparing the product on the printed circuit board.

EET 4356C Advanced Communication
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)
Prerequisite: EET 3321C

Advanced concepts in digital communication systems; students will study and conduct laboratory experiments in advanced communication systems (video, facsimile, telephone, modems, RS232, cellular phones, networks and fiber optics).

EET 4513 Electric Machinery
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Study of electric machinery, including direct current motor and generator, induction and synchronous motors and generators for single phase and three phase systems. Emphasis is on practical applications, principles of operation and performance characteristics. Courses in AC and DC circuits are required.

EET 4548 Power Systems Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Investigation of the technical aspects of generation, transmission and distribution of electrical power systems; circuit constants, assemblies of power systems, distribution of electrical energy, faults and behavior of power system equipments.

EET 4930 Seminar: Electrical Engineering Technology
Department: Engineering and Computer Technology
3.0 sh (may be repeated for up to 99.9 sh of credit)

Participation in advanced discussions of electrical engineering technology. Topics will vary depending upon the needs of each class of students. Senior status in electrical engineering technology is required.

EET 4935 Special Topics in Electrical Engineering Technology
Department: Engineering and Computer Technology
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: MAC 2311

Covers several topics in guiding students to develop advance skills in electrical engineering technology especially on advanced technological concepts, problem solving abilities, technical project development and analysis.

EET 4941 Internship/Project in Electrical Engineering Technology
Department: Engineering and Computer Technology
3.0 sh (may be repeated for up to 6.0 sh of credit)

Observation and participation in electrical engineering technology based project/seminar with a training related settings. Designed to reinforce academic preparation; confirm education and career goals; and facilitate personal and professional development. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

EEX - EDUCATION: EXCEPTIONAL CHILD-CORE COMPETENCIES

EEX 2010 Introduction to Exceptional Children
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Incidence, nature, etiology and services available in connection with gifted and handicapped children. Visual, auditory, speech, motor coordination, intellectual, social, emotional and behavioral deviations are emphasized.

EEX 3070 Methods in Inclusion and Collaboration
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Required for all education majors. Structure and content are based on the University of West Florida's model for professional education, the Empowered Person and Professional taking action. Views future teachers as being: 1)critical thinkers, 2)problem solvers, 3)decision makers, 4) counselors/therapists, 5)ethical and moral beings, 6)lifelong learners, and 7)active professionals. Therefore it provides students a knowledge base of varying exceptionalities, as well as, multiple instructional and management strategies. Students also will be actively involved in experimenting with instructional and behavioral strategies, examining the professional literature, and problem solving in relation to specific cases of students with disabilities or diverse cultural backgrounds. Additionally, information about special needs students, agencies and resources. Students will also become aware of the use of technology in meeting the needs of students with physical, sensory and communicative disabilities. Includes required field experience.

EEX 4050 Foundations of Teaching Students with Exceptionalities
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 2010

Provides a foundation of the history, characteristics, theoretical models, issues, assessment and instructional techniques, and service delivery options related to students with mild disabilities. Emphasis is also placed on developing awareness of the needs and rights of culturally diverse students.

EEX 4141 Survey of Normal and Abnormal Language and Speech Development
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Comparison of normal and deviant patterns of language and speech development. Etiology and remedial programs emphasized.

EEX 4221C Evaluation and Prescriptive Instruction for the Exceptional Child
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Development of skill in administration, interpretation and construction of formal and informal tests for evaluating children and individualizing instruction for exceptional children. Field experience is required.

EEX 4254 Instructional Strategies for Teaching Students with Exceptionalities
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 4255

Focuses on development, implementation, and evaluation of educational plans; special approaches to teaching basic academic and functional skills; developmental programming and data-based management of instruction. Emphasis is also placed on developing awareness of the specific instructional needs of culturally diverse students.

EEX 4255 Curriculum for Teaching Students with Exceptionalities
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 2010, RED 3310

Specialized curriculum and instructional materials for teaching students with high incidence disabilities (learning disabilities, emotional handicaps and cognitive disabilities); curriculum standards and resources; and translation of assessment data into individualized, instructional programs.

EEX 4261 Educational Management of Exceptional Children
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Materials, methods and management techniques appropriate for use with exceptional children. Includes classroom organization and consultation skills. Includes required field experience.

EEX 4275 Move Basic Provider Course
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Provides training in the MOVE Curriculum resulting in certification as a MOVE Basic Provider through MOVE International. Training will be provided in the six steps of the MOVE Curriculum: Testing, Goal Setting, Task Analysis, Measuring Prompts, Reducing Prompts, and Teaching Skills. Additionally lecture, demonstration, and practice will be provided in the areas of transdisciplinary team approaches, family-centered program planning, top-down program development, activity-based instruction, and adaptive mobility equipment. Graded on a satisfactory/unsatisfactory basis only.

EEX 4474 Curricula for Teaching Students with Severe Disabilities
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 2010, EEX 4141

An introduction to functional curricula pertaining to students with severe disabilities including mental handicaps, physical disabilities, and autism. Emphasis placed on community-based curricula and development of functional programs as well as transdisciplinary teaming. Specific information on curriculum and instructional strategies related to communication, motor, oral-motor, daily living, and functional motor skills. Course content presented through lectures, video, class discussions, and participation activities. Credit may not be received in both EEX 4474 and EEX 4241.

EEX 4660 Advanced Behavior Management for Students with Exceptionalities
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 4050

Provides a comprehensive knowledge base concerning advanced behavior management. Areas of emphasis include techniques of stimulus control, shaping new behavior, increasing, decreasing, and maintaining behaviors, cognitive behavior modification strategies, teaching social skills, group contingency contracting and precision teaching.

EEX 4772 Personal, Social and Employment Skills for Exceptional Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 2010

Includes personal, social, communication employment goals and skills, career awareness, and transition planning for adult living. Includes required field experience.

EEX 4832 Field Experience I
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDE 4200
Co-requisite: EDE 4200

Field Experience in a special education school setting integrating reading standards and ESOL competencies across the curriculum through planned and designed course assignments. A minimum of 50 hours in a special education field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This includes: observation, planning, adapting, delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - LED, and students at risk for school failure.) Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EEX 4833 Field Experience 2
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEX 4832

Field experience in a special education school setting includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. A minimum of 50 hours in a special education field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This includes: observation, planning, adapting, delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - LEP, and students at risk for school failure.). Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EEX 4943 MOVE Practicum I
Department: Teacher Education
2.0 sh (may not be repeated for credit)

Provides advanced training in the MOVE Curriculum to individuals who have successfully completed the MOVE Basic Provider training. Training will focus on the first three steps of the MOVE Curriculum: Testing, Goal Setting, and Task Analysis. Special Emphasis will be given to the following topics: family-centered planning, top-down program planning, functional outcomes, activity-based instruction, and instruction in natural contexts. Instruction will be provided through a web-based format that will include required readings, examples of critical concepts, video examples of assessment procedures, group discussion, comprehension quizzes, individual projects, and group projects. Graded on satisfactory/unsatisfactory basis only.

EEX 5052 Foundations of Varying Exceptionalities
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Comprehensive knowledge base concerning varying exceptionalities especially students with learning disabilities, mild behavior disorders, and mild mental retardation. Characteristics of varying exceptionalities, theoretical models, basic instructional methods, service delivery options, unit and lesson planning will be stressed.

EEX 5085 Integrating Curriculum and Instruction
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Comprehensive knowledge base concerning curriculum and instruction for individuals preparing to teach students with diverse needs. Topics emphasized include a) curricular standards, influences and design, b) instructional materials, curricula and resources, and c) teaching methodology and best practices.

EEX 5283 Employment, Social, and Personal Skill Building for Exceptional Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Includes an intensive examination of programs and services and development of well researched strategies for teaching personal, social, employment, and transition skills for students into advanced vocational prep., the workplace and independent living. Provides graduate level field-based classroom experiences in applying career development strategies, job coaching, transition planning, and research related to employment, social, and personal skill development of student with disabilities.

EEX 6035 Foundations of Exceptional Student Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

A comprehensive overview of the exceptional student to include the knowledge, skills, and dispositions needed to be an effective teacher in the ESE classroom or inclusive education environment. Coursework will cover a broad range of topics and prepare the student to pass the Florida Teacher Certification Examination for K-12 Exceptional Student Education.

EEX 6051 Exceptionalities
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Is a requirement for students in the Middle Level and Secondary Education (M.Ed.) Program. The underlying model which permeates this course is the teacher as Empowered Person and Professional taking action. This model focuses learning experiences on activities that permit the teacher to examine what he/she does and to take an active role in the instructional process . Through lecture, discussion, and projects, this course provides a comprehensive knowledge base pertinent to the nature and needs of persons with disabilities, at risk, and with special gifts and talents. It includes a discussion of assessment, service provision, and education of exceptional individuals.

EEX 6205 Typical and Atypical Development (Birth-5)
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides participants with the knowledge of the stages and sequences of skill acquisition and the impact of disabilities and biomedical risk factors on learning and development. Covers normal child growth and development from conception to age five and what can go wrong at the different developmental stages; from genetic contributions through conception and pregnancy to birth and to five years of age. Discusses crucial times for deficiencies.

EEX 6222 Practical Applications and Issues Classroom Management
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Analyze professional literature focused on the best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical response and individual best practices for exceptional student education classroom management. Develop a knowledge base of classroom management practices and applications for individual, small group and large groups in student respective grade level or education settings.

EEX 6225 Assessment of Exceptional Children
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Development, administration, and scoring of group and individual tests and assessment devices for determining scope and depth of educational achievement as well as standardized and alternative assessment methods of specific abilities and behaviors which relate to or constitute prerequisites to educational programs. Students develop proficiency in the development of tests, rating scales, and alternative assessment devices for use with students with learning disabilities, emotional handicaps, and mental handicaps. Credit may not be received in both EEX 6225 and EEX 6227.

EEX 6340 Action Research
Department: Teacher Education
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: EEX 6945

Implementation of proposal in Research Practicum including identification of a problem in the area of Special Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a

professional manner, evaluation and written report of the results. Graded on satisfactory/unsatisfactory basis only.

EEX 6455 Program Development for PreK Disabilities
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Program development for handicapped and at-risk infants, toddlers and preschoolers; includes administration, supervision, curriculum development parent involvement, staff development, funding and evaluation.

EEX 6612 Behavior Management
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides a comprehensive knowledge base concerning behavior management including structuring the classroom for success, assessing and managing individuals and group behavior, and motivating and managing exceptional and at-risk students.

EEX 6707 Assessment for Early Intervention for PreK Disabilities
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Investigates assessment tools used in early intervention and early childhood special education. Explores the strategies and procedures used for screening, diagnoses and program planning.

EEX 6732 Parent-Teacher Team and Agencies for PreK Disabilities
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Parent-teacher team interaction for handicapped and at-risk infants, toddlers and pre-schoolers to age five. Agencies with services for birth to five years of age will be included.

EEX 6756 Home/School/Community Collaboration
Department: Teacher Education
3.0 sh (may not be repeated for credit)

The purpose is to investigate techniques and strategies for developing and implementing effective home, school, and community communication and collaboration. Emphasis will be placed on methods to communicate effectively with families from a variety of cultural backgrounds.

EEX 6940 Practicum in Special Education
Department: Teacher Education
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Designed to provide the critical opportunity for students to demonstrate their ability to write lesson plans, deliver individualized instruction and manage the classroom in a relevant field setting. Minimum of 100 hours in a special education, K-12, setting.

EEX 6945 Research Practicum in Special Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Explores investigative inquiry of relevant topics within the field of special education. Includes instruction in applied research models, analysis and synthesis of professional literature, formulation of research questions, development of a plan of action, and problem solving within investigative inquiry.

EEX 7060 Seminar: Best Practices in Alternative and Special Education
Department: Teacher Education
3.0 sh (may be repeated for up to 6.0 sh of credit)

Students will develop a knowledge base of instructional issues including program alternatives, development of curriculum, developing instructional interventions, and microcomputers and instruction. Students will focus on best practices related to behavioral management, learning strategy instruction, and career education for those students who are not successfully adjusting to the normal school setting.

EEX 7215 Ecological Assessment and Intervention in Alternative and Special Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Students will develop a knowledge base of the theoretical principles underlying ecological assessment in alternative and special education settings. Students will be given opportunities to apply ecological assessment procedures in alternative and special education setting to refine their assessment skills and to use the assessment data to plan and implement behavioral and instructional interventions. Credit may not be earned in both EEX 7212 and EEX 7215.

EEX 7343 Contemporary Trends in Special Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines current research related to current trends in special education. Of particular importance will be an analysis of historical antecedents related to these trends, an examination of associated data bases, and implications for future trends.

EEX 7344 Current Research Applications in Special Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines current research findings concerning assessment, instructional planning, and evaluative procedures used with

various age groups and disabilities. Past and current practices as well as those procedures that have been found to be most effective will be addressed.

EEX 7457 Changing Paradigms in Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Develop a knowledge base of major issues confronting the education. Understand current practices and relate these to the future needs of students. Additionally, students will be encouraged to explore ways in which programs and services can be restructured to meet current and future needs.

EEX 7773 Transitional Planning for At-Risk Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Students will develop a knowledge base of transitional issues including historical perspectives, legislative mandates for transitional planning, skills and needs of at-risk students, models of transition programs, barriers and supports to transition, professional responsibilities, work and independent living supports, and current and future transitional needs. Students will focus on best practices related to vocational rehabilitation, vocational education, career education, and community education for those students who would not successfully adjust to adult living without these services.

EGI - EDUCATION: GIFTED

EGI 5051 Nature and Needs of Gifted
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Evaluation, identification and characteristics of gifted children and youth including those from special populations. Cultural, psychological and physiological factors of giftedness and their implications for educational programming.

EGI 6231 Educational Procedures and Programs for Gifted Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Educational procedures for the gifted including: program designs, curricular models, content modifications, methods of stimulation and enrichment as well as descriptions of current programs and specific strategies to enrich the content areas.

EGI 6246 Education of Special Populations of Gifted Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines the incidence and effect of handicapping condition on the education of students who are gifted. Specifically, examines educational adaptations that can be made to meet the needs of children and youth who are gifted and labeled handicapped.

EGI 6305 Theory and Development of Creativity
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to examine a variety of theories of creativity in school aged children. Appropriate educational activities, placement and instructional support will be examined.

EGI 6415 Guidance of Learning and Counseling of Gifted Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Programming the total learning experience for gifted students and meeting the unique counseling needs of the gifted student and his/her parents with an emphasis on awareness, knowledge, and understanding of students who are gifted and talented or from special populations as well as developing strategies to design and implement counseling programs for the unique socio-emotional needs of the gifted/talented student. Unique challenges and opportunities the gifted and talented children and adolescents have in the classroom and the role of the counselor as advocate.

EGM - ENGINEERING: SCIENCE

EGM 2500 Engineering Mechanics-Statics
Department: Physics
2.0 sh (may not be repeated for credit)
Prerequisite: PHY 2048
Co-requisite: MAC 2313

Covers basic aspects of reduction of force systems, equilibrium of particles and rigid bodies, vector methods, and application to structures and mechanisms.

EGM 3401 Engineering Mechanics-Dynamics
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: EGM 2500 and MAC 2313

Covers material of EGM 3400 plus extended coverage of three dimensional rigid-body dynamics and of orbital motion.

EGM 4313 Intermediate Engineering Analysis
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: MAP 2302 with a grade of "C" or higher

Engineering applications of linear algebra, vector differential, calculus (including the concepts of gradient, divergence, and

curl), complex variables (and functions of complex variables), and fourier series. Numerical solutions of non-linear equations.

EGN - ENGINEERING: GENERAL

EGN 1002 Introduction to Engineering
Department: Electrical & Computer Engineering
0.0-1.0 sh (may be repeated for up to 2.0 sh of credit)

Introduces the student to engineering topics and guides the student toward Electrical and Computer Engineering at UWF. Students get the opportunity to interact with current engineering students and practicing engineers from various engineering fields. The student also participates in a hands-on design component. The goal of the class is to help the student make an informed choice about career alternatives.

EGN 1006C Concepts in Engineering
Department: Electrical & Computer Engineering
0.0-1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: MAC 1105

Stimulate and maintain the student's interest in the field of engineering. Provides an insight into the various fields of engineering as well as the appropriate computational skills required for success in subsequent courses in their respective engineering program.

EGN 1200C Computer Applications in Science and Engineering
Department: Electrical & Computer Engineering
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: EGN 1006C

An introductory level course in Java programming/ an introduction to Boolean algebra, logic design, computer organization and design.

EGN 1945 Industrial Practicum
Department: Electrical & Computer Engineering
0.0-1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: 30 Semester Credit Hours

Engineering practice in local industry. Course cannot be used for credit towards an engineering degree. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

EGN 2414C Introduction to Engineering Design and Practice
Department: Electrical & Computer Engineering
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: EEL 2005C

Understand basic project design from initiation to fruition. The student will have worked with other engineers and will have decided if engineering is a viable option as a career.

EGN 3203 Engineering Software Tools
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Gives students an introduction to important Engineering software tools such as MATLAB, Labview, MATHCAD, and FSPICE. Credit cannot be received for both EGN 3203 and EGN 3203L.

EGN 4032 Professional Ethics
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)
Prerequisite: Junior standing

An interactive study of ethics, theory and the development of professionalism. Case studies of ethical conflicts in engineering practice. Covers engineering codes of ethics and requires students to resolve theoretical situations through application of ethical codes.

EGN 4410 Capstone Design I
Department: Electrical & Computer Engineering
1.0 sh (may not be repeated for credit)
Prerequisite: EEE 3308 and EELO 4744 with a minimum grade of C.

Preliminary work on senior design project. This portion of the senior design will focus on the objectives and criteria, synthesis, and analysis elements of project development. After developing design concepts, researching for implementation methods, and performing a feasibility study (which will include economic, social, ethical, etc., factors), the semester will culminate with a senior design project proposal and presentation.

EGN 4411L Capstone Design II
Department: Electrical & Computer Engineering
2.0 sh (may not be repeated for credit)
Prerequisite: EGN 4410 (with a grade of C or better)

Continuation of Capstone Design I, with emphasis on construction, testing, and evaluation elements of project development. Material and Supply fee will be assessed. Permission is required.

EGS - ENGINEERING: SUPPORT

EGS 3613 Principles of Engineering Economy
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Time value of money and discounted cash flow. Cost comparison of alternatives involving depreciation, taxes, inflation and profitability. Financial statements, break-even and minimum cost analysis and economic optimization.

EGS 3949 Cooperative Education
Department: Engineering and Computer Technology
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education. Graded on a satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

EIN - INDUSTRIAL ENGINEERING

EIN 4354 Engineering Economy
Department: Electrical & Computer Engineering
3.0 sh (may not be repeated for credit)

Basic principles and applications of economic decision making between alternatives encountered in engineering systems projects. The analysis will include methodologies of economics and finance in addition to engineering fundamentals. Upper division classification in engineering is required.

EME - EDUCATION: TECHNOLOGY AND MEDIA

EME 2040 Introduction to Educational Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Assists educators in developing skills and competencies which are essential to the integration of technology into the delivery of classroom instruction. Students will survey a wide variety of instructional technology materials and systems. They will also learn to use these tools in a classroom environment.

EME 2042 Introduction to Communications and Print Technologies
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Communications and information professionals are required to design and develop print and multimedia-based products that promote effective teaching and learning. Students survey technology programs and systems that are commonly found in the communications and print professional environment as they explore how those products are used in professional environments that focus on teaching and learning.

EME 3201 Communication in the Workplace: Disney Perspectives
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Students will have the opportunity to learn concepts inherent in communication and apply them in a Disney environment. Interpersonal skills will be acquired to allow students to participate in group meetings, understand group dynamics, and participate in developing communication plans. Permission is required.

EME 3202 Disney Organizational Leadership
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Students will have the opportunity to learn concepts inherent in organizations and apply them in a Disney environment. Students learn basic leadership theory and the application of those theories in a variety of work settings. Permission is required.

EME 3203 Disney: Engineering Advanced Professional Development
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Students will have the opportunity to learn concepts inherent in the engineering profession and see how Disney applies those concepts. Permission is required.

EME 3301 Network Infrastructure: Planning, Design and Implementation
Department: Engineering and Computer Technology
12.0 sh (may not be repeated for credit)

Design hardened networks, provide network design services for enterprises. Plan and maintain network infrastructure, including TCP/IP networking, networking services, network security, active directory. Configure servers, computers, and user environments. Troubleshoot network environment. Permission is required.

EME 3402 Information Engineering Technology: An Overview
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570

Engineering Technologists are professionals who design, develop, and manage systems in the areas of computers, networking, and telecommunications. Topics related to information technology and instructional technology will be explored and case studies will be used to illustrate the complex nature of the profession. In this survey of the field, students build foundational knowledge and skills they need to become effective Information Engineering Technologists.

EME 3406 Web Environments for Learning and Information
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)
Prerequisite: EME 3402

Instructional Technology support personnel assist educators, trainers, and other individuals in creating network-based learning systems that integrate technology into a wide variety of education and training environments. This integration requires students to operate, select, produce, and manage instructional technology materials and systems in a variety of settings. Students will design and develop informational and instructional web sites using both HTML and web editors. These sites can be used for education and training in education, business, or military.

EME 3410 Integrating Technology Across the Curriculum
Department: Teacher Education
1.0 sh (may not be repeated for credit)
Prerequisite: EME 2040

Students will learn how to design a technology-rich classroom while contemplating the changing role of the teacher as a mentor/guide and student as a self-directed learner. Students will explore models of technology integration, classroom management and administrative tasks that can be performed more efficiently using technology, and learn strategies to select software and deal with legal and ethical issues when planning for technology integration.

EME 4313 Multimedia Applications for e-Learning
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 3402

Introduces the learner to a variety of multimedia development tools in order to examine multimedia objects and components as well as define their performance and quality parameters. Examines the development process for a number of multimedia types and evaluate their effect on project development. Illustrates methods to incorporate the performance and quality factors of a multimedia project into the implementation and configuration of a delivery network.

EME 4454 Distance Education Technologies
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570

Examines the uses of distance education in education and training environments as distance systems are increasingly used for teaching and learning. Distance education will be investigated as an instructional method in terms of delivery, development, and implementation. Students will design a distance education environment that uses emerging technologies to support distance delivery. Offered concurrently with EME 5457; graduate students will be assigned additional work.

EME 4622 Technology Tools: Site-based Educational Networks
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570

Students learn the basic principles associated with designing and developing site-based networks that support education and training organizations. Major topics to be examined include: terminology, troubleshooting techniques and strategies, the future of educational networks. Offered concurrently with EME 5315; graduate students will be assigned additional work.

EME 4627 Education and Training Technology Support Systems
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)
Prerequisite: EME 2040 or CGS 2570

Students learn advanced principles associated with designing and developing multi-site and enterprise-based support systems for education and training technologies and organizations that focus on developing effective learning environments and communities. Offered concurrently with EME 5403; graduate students will be assigned additional work.

EME 4944 Internship/Practica in Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Observation and participation in education and training-related settings. Students participate in field based experiences related to their course of study and future goals. Permission is required.

EME 5355 Instructional Design for HPT
Department: Engineering and Computer Technology
1.5 sh (may not be repeated for credit)

Instructional Systems Design is the basis of creating training interventions. HPT professionals must be able to articulate systematic ways of integrating instructional interventions into the workplace from a pedagogical and practical viewpoint. Emphasized will be theories and models that support the design of instruction. Focus areas will include instructional strategies, and media selection techniques.

EME 5403 Education and Training Technology Support Systems
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Students learn advanced principles associated with designing and developing multi-site and enterprise-based support systems for education and training technologies and organizations that focus on developing effective learning environments and communities. Offered concurrently with EME 4627; graduate students will be assigned additional work.

EME 5457 Distance Education Technologies
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Distance education will be investigated as an instructional method in terms of delivery, development, and implementation. Students will design a distance education environment that uses emerging technologies that support distance delivery. Offered concurrently with EME 4454; graduate students will be assigned additional work.

EME 5625 Technology Tools: Site-Based Educational Networks
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Students learn the basic principles associated with designing and developing site-based networks that support education and training organizations. Major topics to be examined include: terminology, troubleshooting techniques and strategies, the future of educational networks. Offered concurrently with EME 4622; graduate students will be assigned additional work. Credit may not be received in both EME 5625 and EME 5315.

EME 6050C Alternative Certification: Technology
Department: Teacher Education
1.0 sh (may not be repeated for credit)

The teacher uses technology as available at the school site and as appropriate to the learner. She/he provides the students with opportunities to actively use technology and facilitates access to the use of electronic resources. The teacher also uses technology to manage, evaluate, and improve instruction. Credit may not be received in both EME 6050C and EDG 6434.

EME 6054 Foundations of Instructional Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Students investigate historical, sociological, and philosophical perspectives of instructional technology in education and training environments. Students develop the knowledge, skills, and abilities needed to integrate instructional technology theories and processes into education and training settings. Credit may not be received in both EME 6054 and EME 6053

EME 6059 Technology and At-Risk Student
Department: Teacher Education
1.0 sh (may not be repeated for credit)

Advanced technology is used in this class to create incentives for learning by at-risk students. Students will become proficient in utilizing the Internet and graphic design techniques to increase interest in learning. Credit may not be received in both EME 6059 and EDG 6435.

EME 6314 Technology for Leaders
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Provides leaders with the basic terminology, historical perspectives, theoretical basis, research and practical application of instructional technology to empower persons and professionals who work in educational settings. Builds knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques.

EME 6316C Instructional Management and Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Survey of the applications and uses of technology from a variety of perspectives, including education, training, military, public sector, and non-profits. Focusing on technology, information, and information technology literacy. Special attention is paid to providing a systematic view of the use of technology and information in organizations. Credit may not be received in both EME 6316C and EDG 6344C.

EME 6317 Instructional Technology for Educational Leaders
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

The basic terminology, technology skills, historical perspectives, theoretical basis, research and practical application of instructional technology for professionals who work in educational settings. Knowledge and skills to assist school and district leaders in using and applying instructional technology planning and management techniques to real-world situations. Upon completion of this course, students will have the ability to use instructional technology for administrative and instructional purposes and to plan, organize, and promote its use in PK-12 educational environments. Credit may not be received in both EME 6317 and EDF 6287.

EME 6356 Performance Analysis for HPT Environments
Department: Engineering and Computer Technology
1.5 sh (may not be repeated for credit)
Prerequisite: EME 6429

Application of knowledge, skills, and abilities in performance consulting activities associated with analysis of organizational systems.

EME 6357 Tools for HPT Evaluation
Department: Engineering and Computer Technology
1.5 sh (may not be repeated for credit)

Develop skills in developing and using tools for evaluation, focused on administrative and education and training settings. Students will follow a process and integrate tools for evaluation into this project-based course.

EME 6358 Evaluation for MSA Professionals
Department: Engineering and Computer Technology
1.5 sh (may not be repeated for credit)

Develop skills in selecting appropriate models for conducting an evaluation in an administrative environment. A series of models will be evaluated for applicability and use in administrative environments.

EME 6359 Human Performance Technology: Performance Consulting
Department: Engineering and Computer Technology
1.5 sh (may not be repeated for credit)

Human Performance Consultants guide the HPT process and must be able to guide clients and stakeholders through the HPT process, following the HPT Model. Using a variety of consulting strategies, the HPC articulates systematic ways of analyzing, selecting, implementing, and evaluating the interventions that are used to resolve performance issues.

EME 6408 Integrated Technology Learning Environments
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Students evaluate how technology is impacting education and training from an instructional systems perspective, students will review what educational and training leaders are promoting for the future, what new approaches exist, and how to integrate this into a technology-rich learning environment. All content will be woven around current national and state reform and accountability efforts; standards for instructional technology; and competencies for instructional designers.

EME 6409 Distance Learning Implementation
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Integrates theories of learning and communication with realities and potential of using telecommunications in education and training environments. Students will focus on telecommunications as a learning environment for worldwide communication with others in their area of interest. Emphasizes hands-on use of telecommunications and helps students develop a basic understanding of the wide variety of telecommunication options available.

EME 6414C Web-Based Instructional Tools for Educators
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Students will develop the skills necessary to design web-based instructional programs. In addition, students will develop the knowledge, skill, and abilities needed to provide leadership in the area of web-based design, development, and delivery of instruction. Students will design and develop effective instruction, as well as identify and select other effective "off the net" instruction.

EME 6415 Designing Instructional Courseware
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Incorporates concept, theory, and research to the design, and evaluation of computer-assisted instruction (CAI). Includes the production of a CAI rapid prototype based on sound principles of learning theory and instructional design.

EME 6425 Electronic Performance Support System (EPSS)
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EDG 5332 and EME 6414C or EME 6415 or EME 7811.

Students will be engaged in active research and rapid prototype design of Electronic Performance Support System (EPSS). Students will explore components of EPSS technology; make comparisons of various examples of EPSS available; and design a rapid prototype of a model EPSS through emerging instructional systems models including prototyping; iterative design; and concurrent evaluation. A "just- in-time" approach to education and training will be examined, compared, and contrasted with more traditional solutions and tools to training. A major focus will be on user interface and building scaffolding into the design of an EPSS.

EME 6426 HPT Interventions
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6429

Human Performance Technologists, education and training leaders in organizations, identify gaps between desired and actual employee performance levels. Once the gaps have been identified, the HPT practitioner determines interventions or combinations of interventions that are needed to close those gaps. These interventions consist of instructional and non-instruction solutions that educators and trainers design and develop that, in turn, solve organizational performance problems.

EME 6427 Implementing HPT Interventions
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6426, EME 6429

Once performance gaps have been identified, Human Performance Technologists determine interventions or combinations of interventions that are required to close those performance gaps. The implementation of instructional and non-instructional interventions follows a process model that meets education and training needs of the organization.

Guides the student in developing strategies for implementing those interventions.

EME 6428 Evaluating HPT Interventions
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6426, EME 6429

Human Performance Technologists, education and training leaders in organizations, evaluate the success of HPT interventions, both instructional and non-instructional. The impact of these interventions must be quantified and solutions modified as needed based on evaluation data.

EME 6429 Human Performance Improvement
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Models of human performance technology, associated processes, and procedures for completing the tasks ascribed to the various stages within the models/processes are explored.

EME 6458 Distance Learning Policy and Planning
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Integrates theories of distance education with modern theories of learning and instruction. Distance education will be evaluated as an instructional method in terms of delivery, development, and implementation. Includes development and delivery of a distance education lesson based on relevant theoretical foundations.

EME 6601 Needs Assessment and Evaluation in Instructional Technology Environments
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Develop skills in conducting a needs assessment or evaluation that are focused on instructional technology projects or products. Students will follow a process and integrate tools for needs assessment and evaluation into this projects-based course.

EME 6607 Instructional Technology Planning and Change
Department: Engineering and Computer Technology
1.0-5.0 sh (may be repeated for up to 5.0 sh of credit)
Prerequisite: EME 6316C

Incorporates organizational systems analysis and management as related to instructional projects and building technology-rich learning environments through a comprehensive site-based technology plan. Students develop skills needed to design, develop, and manage instructional technology projects in organizations that continually change and evolve.

EME 6626 Emerging and Innovative Technology Systems
Department: Engineering and Computer Technology
3.0 sh (may be repeated for up to 6.0 sh of credit)

New technology and approaches to teaching and learning evolve and revolutionize how professionals approach technology integration. Explore how innovation and new technologies can be used in instructional strategies to promote performance and learning.

EME 6628 Contract Administration: Large Scale Instructional Technology Systems
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Will incorporate selected concepts from the trends and issues in instructional technology, current large scale technological initiatives, project planning and contract administration for large scale instructional technology systems. Students will learn to search from a variety of funding sources in instructional technology funding, write proposals and grants, gather data from large databases (such as the MIS records), and manage/administer contracts from a project management perspective.

EME 6812 Instructional Technology Seminar
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Students will synthesize the research on instructional technology as it relates to teaching and learning. Students will study the influence of research and theory in instructional technology to suggest a model or set of constructs for technology based learning environments. Students exploring emerging technologies will be better prepared as decision makers and leaders in the field of instructional technology such as virtual reality, telepresence, hypermedia, cyberspace, and distance education have potential application for education and training. The full emergence into a technology based learning environment could revolutionize teaching and learning.

EME 6936 Seminar in HPT Issues: Human-Computer Interaction
Department: Engineering and Computer Technology
1.5 sh (may not be repeated for credit)

HPT Professionals face a range of performance issues resulting from the incorporation of technology and technological-processes into organizations. Merging concepts of human factors, ergonomics, usability, and wayfinding into performance considerations provides the

HPT Professional with an opportunity to analyze performance from a variety of perspectives.

EME 6946 Field Experiences in Instructional and Performance Technology
Department: Engineering and Computer Technology
3.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Observation and participation in instructional and performance technology organizational settings. Students participate in field-based experiences related to their course of study and future goals. Permission is required.

EME 7063 Research on Emerging and Innovative Technology Systems
Department: Engineering and Computer Technology
3.0 sh (may be repeated for up to 6.0 sh of credit)

Design and develop instructional systems that use innovative and emerging technologies to promote motivation, performance and learning in education and training systems. Build a research framework to investigate technologies and instructional systems.

EME 7417 Advanced Web-Based Learning Environments
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EME 6316C

Incorporates concept, theory, and research to the design, development, and evaluation of complex web-based learning environments. Included is the development of a WBI learning environment based on sound principles of learning theory and instructional design.

EME 7938 IT Research Design Seminar
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6475, EDF 7407

Provides Instructional Technology advanced graduate students with the opportunity to conduct an in-depth examination of the processes and procedures in applied IT research, specifically as related to the dissertation process. Students explore how to determine appropriate topics for IT research, format and style for research publications, strategies for conducting literature reviews, hypotheses, a research design, and appropriate statistical application.

EME 8980 Dissertation
Department: Engineering and Computer Technology
1.0-6.0 sh (may be repeated for up to 18.0 sh of credit)

Major individual research in an area of significant educational interest; designed specifically for candidates in the Ed.D. Curriculum and Instruction, Instructional Technology program. The dissertation reflects intensive educational research produced by the student and collaboratively developed with the student's graduate committee. Graded on a satisfactory/unsatisfactory basis only. Admission to candidacy, completion of all other doctoral program requirements and permission is required.

ENC - ENGLISH COMPOSITION

ENC 1101 English Composition I
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Guided practice in critical thinking and the writing process for various rhetorical situations. Documented paper is included. Requires additional work in the Writing Center. (Gordon Rule Course: Wrtg) and (General Studies Course: COM/C1)

ENC 1101L English Composition I Lab
Department: English & Foreign Language
1.0 sh (may not be repeated for credit)

Lab to accompany ENC 1101. (Gordon Rule Course: Wrtg)

ENC 1102 English Composition II
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)
Prerequisite: ENC 1101

Continuation of ENC 1101, with emphasis on complexities of style and rhetorical strategies. Documented paper is included. Course requires additional work in the Writing Center. (Gordon Rule Course: Wrtg), and (General Studies Course: COM. C2).

ENC 3240 Technical Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Practice in preparing documents used in science, business, industry, and government, including letters, manuals, reports and proposals. (Gordon Rule Course: Wrtg)

ENC 3250 Professional Writing
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)
Prerequisite: Grade of "C" in both ENC 1101 and ENC 1102

Professional writing course relevant in business, industry, government, and other institutional settings; major elements of written organizational communication with emphasis on composition of letters, memos, proposals, etc. (Gordon Rule Course: Wrtg)

ENC 4940 Writing and Editing Internship
Department: English & Foreign Language
3.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ENC 3310

Students will be involved in all aspects of publishing magazines, brochures, and newspapers. They will research assigned topics, conduct interviews, write feature articles, edit and proof-read articles, and participate in editorial discussions. Permission is required.

ENC 5333 Topics in Rhetoric
Department: English & Foreign Language
3.0 sh (may be repeated for up to 9.0 sh of credit)

Examination of various topics in rhetoric, composition and/or pedagogy as they apply to the history, theory, analysis, and/or practice of rhetoric. Topics change each term. Contact department or instructor for specific topic.

ENG - ENGLISH: GENERAL

ENG 3010 Critical Methods for Literary Study
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Development of writing and critical thinking skills specific to the study of literature. English majors and minors only. Permission is required. Credit may not be received in both ENG 3010 and ENC 3320. (Gordon Rule course: Wrtg)

ENG 3113 Fiction and Film
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Selected prose fiction and film adaptations.

ENG 3843 Theories of Sexuality and Gender
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Examines sexuality and gender as social constructs as opposed to "natural" categories or "essences." Includes feminism, gay and lesbian studies, and masculinity studies. Draws on many disciplines, including literature, history, sociology, anthropology, philosophy, and the sciences.

ENG 4013 Introduction to Literary Theory
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Designed to provide an introduction to a wide range of current theories about the uses and effects of literature and literary criticism. Primarily for English majors and minors. Meets Multicultural requirement.

ENG 4934 Capstone Experience
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)
Prerequisite: 12 hours of upper division coursework in English; at least 6 of those hours must have been at the 4000 level.

Covers a wide range of literary genres and works that have been considered controversial at some point in their history because of their subject matter, form, or style. Changing attitudes toward what is considered "literature" or "literary" will be emphasized. Required texts will vary according to instructor's expertise.

ENG 5009 Introduction to Advanced Literary Study
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Examination of the history and current state of literary studies and introduction to current methods and resources necessary for advanced literary studies.

ENG 6018 History of Literary Theory
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)
Prerequisite: ENG 5009

Survey of literary theory from Plato to contemporary thought.

ENG 6019 Topics in Literary Theory
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)
Prerequisite: ENG 5009 and ENG 6018

Topics in literary theory.

ENG 6971 Thesis
Department: English & Foreign Language
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

ENL - ENGLISH LITERATURE

ENL 2010 History of English Literature I
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Historical trends: Beowulf to 1660. Permission of the department is required. Primarily for English majors and minors.

ENL 2020 History of English Literature II
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Historical trends: 1660 to present. Permission of the department is required. Primarily for English majors and minors.

ENL 4210 Topics in Medieval Literature
Department: English & Foreign Language

3.0 sh (may not be repeated for credit)
Prerequisite: ENL 2010

Students read and discuss a variety of texts by diverse authors across the 1000-year period which can be termed the extended Middle Ages, as well as significant precursor texts and authors, in order to discover lines of origin and influence for evolving formal, stylistic, socio-political and theological results, and to acquire an aesthetic appreciation of the literatures of the period. An awareness of significant critical and theoretical terminologies will be developed and incorporated into classroom discussion and writing projects.

ENL 4224 Topics in Early Modern Literature
Department: English & Foreign Language
3.0 sh (may be repeated for up to 8.0 sh of credit)

Focused study of a particular issue, theme or body of work in sixteenth and seventeenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary depending on faculty expertise and research interests.

ENL 4234 Topics in Eighteenth-Century British Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Focused study of a particular issue, theme or body of work in Restoration and eighteenth-century literature in a variety of genres and Anglophone contexts. Specific course topics will vary according to faculty expertise and research interests.

ENL 4240 Topics in Romantic Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Selected topics engaging the prose and poetry of major Romantics: Blake, Coleridge, Wordsworth, Byron, Keats, Shelley.

ENL 4251 Topics in Victorian Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Covers the period leading up to and including the reign of Queen Victoria of England (1837-1901). Literary works will be considered in the context of numerous cultural transformations underway during the period.

ENL 4284 Topics in 20th-Century and Contemporary British Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Covers representative works from all genres written from 1900 to the present by authors living in the British Empire. Emphasis will be placed on Modernist and Postmodernist works.

ENL 4311 Chaucer
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Canterbury Tales read in Middle English.

ENL 4333 Shakespeare
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Selected comedies, histories and tragedies.

ENL 4341 Milton
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Major and selected poems; emphasis on reading of Paradise Lost.

ENL 6297 Topics in British Literature to the Romantics
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Studies in major figures or movements in British literature until 1789.

ENL 6298 Topics in British Literature from the Romantics to Present
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Studies in major figures or movements in British literature from 1789. Topics change each term. See department or instructor for specific topic.

ESE - EDUCATION: SECONDARY

ESE 3304C General Methods for Teaching Secondary School Subjects
Department: Teacher Education
3.0 sh (may not be repeated for credit)

General methods of planning, presenting, and evaluating instruction, incorporating legal requirements and principles and skills of effective teaching embodied within the Florida accomplished practices. Intended for majors in the various secondary teacher education programs. Credit may not be received for both ESE 3304C and ESE 3321C.

ESE 4322 Instruction, Management, and Assessment: Secondary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Strategies for managing the classroom, instruction and evaluation as it relates to teaching the essential school competencies.

ESE 4323 Educational Assessment
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed for all students in Teacher Education and focuses on assessment concepts that are critical for good teaching. Topics include (1) measurement issues to determine assessment quality; (2) teacher constructed assessments such as paper and pencil assessments, informal assessments, and performance and product assessments; (3) interpreting standardized assessments commonly used in public schools.

ESE 4940 Field Experience 1
Department: Teacher Education
3.0 sh (may be repeated for up to 6.0 sh of credit)

Field experiences in a secondary school setting includes integrating reading standards and ESOL competencies across the curriculum through carefully planned and designed course assignments. A minimum of 50 hours in a secondary field placement. Successful students will also demonstrate proficiency on the 12 Florida Educator Accomplished Practices and ESOL Performance Standards. This includes: observation, planning, adapting, delivering, and evaluating lessons that include curriculum materials, activities, and assessments of students from diverse backgrounds, i.e., culturally and linguistically diverse (Limited English Proficient - LEP, and students at risk for school failure.) Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

ESE 6035 School Involvement and Community Relations
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Investigate techniques and strategies for developing and implementing effective home, school, community involvement programs at the secondary level. Emphasis will be placed on materials and techniques for communicating effectively with families from a variety of cultural backgrounds and the implications for industrial, labor and community relations as they impact the secondary school level.

ESE 6215 Curriculum, Instruction, Methods: Secondary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to prepare the secondary teacher with the teaching/learning skills for instructional planning, facilitation, and evaluation required in the 21st century classroom. Designed to develop empowered professionals for the classroom who are masters in the areas of direct instruction, cooperative learning, applied strategies, academic and technical skill integration, and contextual learning projects and activities. A required component of the professional sequence required by the State of Florida for initial certification.

ESE 6217 Integrated Curriculum and Instruction/Secondary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Advanced curriculum course for graduate secondary education students. Format combines classroom instruction and student engagement focusing on integration of the content areas with a field based component in which the student applies learning and conducts research. Emphases of instruction are integration of content, best practices in the content areas, accomplished practices in teaching, contextual learning, constructivism, cooperative learning, interdisciplinary instruction, mental habits, multiple intelligences, SCANS competencies, and authentic assessment.

ESE 6343 Practical Applications and Issues in Classroom Management: Secondary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Analyze professional literature focused on best practices and ecological variables associated with teacher and student behavior and perceptions to develop practical responses and individual best practices for secondary education classroom management. Develop a knowledge base of classroom management practices and application to individual, small group, and large groups in student respective grade level or education settings.

ESE 6421 Research Practicum
Department: Teacher Education
3.0 sh (may be repeated for up to 6.0 sh of credit)

Identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conduct of research in a professional manner, evaluation and written report of the results.

ESE 6426 Action Research
Department: Teacher Education
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: ESE 6421

Implementation of proposal prepared in Research Practicum including identification of a problem in the area of Secondary Education, review of pertinent literature and preparation of a proposal with all the necessary information, conducting research in a professional manner, evaluation and written report of the results. Graded on a satisfactory/unsatisfactory basis only.

ESE 6944 Graduate Methods/ESOL/Reading Practicum: Secondary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Co-requisite: LAE 6325, MAE 6361, SCE 6625, or SSE 6326

Implementation of a well-researched teaching approach not previously used by the candidate; maintenance of a log to indicate adaptations, required and conclusions drawn about the impact of the new approach on pupil's achievement; a professionally written report stating the approach used, the goal of the practicum, a brief review of related literature, a summary of the practicum experiences and a statement of the conclusions reached about methods, ESOL, and reading strategies is included.

EST - ELECTRONIC SPECIALTY TECHNOLOGY

EST 3543 Programmable Logic Controllers
Department: Engineering and Computer Technology
4.0 sh (may be repeated for up to 8.0 sh of credit)
Prerequisite: MAC 1105, EET 3504C

Explore logic fundamentals, programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol.

EST 4538 Instrumentation
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 2049 or PHY 2054

The industrial application of instrumentation. Electrical, mechanical, and pneumatic instrument applications.

EST 4538L Instrumentation and Control Laboratory
Department: Engineering and Computer Technology
1.0 sh (may be repeated for up to 2.0 sh of credit)
Prerequisite: MAC 1105 and either EET 3504C or EST 4538
Co-requisite: EST 4538

Laboratory course accompanying EST 4538. Application of analog and digital signal conditioning, the interface of sensors and readout devices or computers. Various methods of analog and digital signal conditioning and an assortment of sensors including those used for the measurement of temperature, pressure, strain, and light are studied.

ETD - ENGINEERING TECHNOLOGY: DRAFTING

ETD 2320 Computer Aided Design
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Application of industrial standard CAD program. Develop skills in CAD processes and procedures while working on real-world projects.

ETD 4353C Project Conceptualization and Presentation
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: ETD 2320, EGS 3613

Builds upon the CAD software knowledge and project development knowledge to conceptualize and plan ET projects (to include CAD drawings) as well as learn how to present the overall project plan. Activities are designed to provide in-depth experience in a single CAD program as new commands are introduced and practiced on real problems.

ETI - ENGINEERING TECHNOLOGY: INDUSTRIAL

ETI 3112 Applications of Quality Control
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023; junior standing

Evaluating quality control documents and technical information for major ideas or parts. Sampling is a study of various methods, plans and techniques available, and the portrayal of data through graphics techniques.

ETI 3445 Construction Estimating
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Processes involved in estimating, including the formats appropriate for construction jobs and projects. Terminology, software options, and general requirements will be explored. Modeling of real-world experiences will include a project bid and formal "mock" bid opening.

ETI 3704 Industrial Safety (OSHA)
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Principles of safety in typical industrial and construction environments. Credit cannot be received in both ETI 3704 and ETI 3700.

ETM - ENGINEERING TECHNOLOGY: MECHANICAL

ETM 4512 Design Analysis
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311, MAC 2312, PHY 2053, PHY 2054

Basic machine elements and their design: review of strength of materials to explanation of fundamental principles required

for correct design of separate elements which compose machines. Credit cannot be received in both ETM 4512 and ETM 4590.

EUH - EUROPEAN HISTORY

EUH 1000 Western Perspectives I
Department: History
3.0 sh (may not be repeated for credit)

Study of the West's geographical, cultural, political, and economic environments, with an emphasis on how the development of the Western World is part of a larger process of historical development. (General Studies Course: SS/HIS) Meets Multicultural requirement.

EUH 1001 Western Perspectives II
Department: History
3.0 sh (may not be repeated for credit)

Study of the West's geographical, socio-cultural, political and scientific developments with an emphasis on how changes in these areas helped to shape civilization in the West, influenced the non-western world, and provided insight into the current conditions in the West and its relationship with the global community. (General Studies Course: SS/HIS) Meets Multicultural requirement.

EUH 3121 Fall of Rome, Birth of Europe
Department: History
3.0 sh (may not be repeated for credit)

Analysis of the continuity and changes in the social, religious, and political life of what constituted Rome's empire following its decline. Study of the converging cultures that created Europe. Covers the period 400-1050.

EUH 3122 High Middle Ages
Department: History
3.0 sh (may not be repeated for credit)

Covers the formation of Europe from 1050-1450, a period of dramatic change. Dispels the notion of the "Dark Ages" by analyzing social alignments, religious reform, the rise of universities, economic advancement, and the development of constitutional forms of government.

EUH 3200 Early Modern Europe
Department: History
3.0 sh (may not be repeated for credit)

Developing nations emphasizing political, social, economic, cultural and intellectual aspects of Europe from 1500 through French Revolution and Napoleonic period.

EUH 3203 Modern Europe
Department: History
3.0 sh (may not be repeated for credit)

European history since 1815, emphasizing contemporary problems, their historical development and interpretations. Meets Multicultural requirement. Credit may not be earned in both EUH 3203 and EUH 3205.

EUH 3280 The Second World War
Department: History
3.0 sh (may not be repeated for credit)

Examines the military, social, political, diplomatic, cultural, and economic aspects of the Allied and Axis powers on all fronts of World War II.

EUH 3411 Rome and the Mediterranean World
Department: History
3.0 sh (may not be repeated for credit)

The development of Rome from a tiny town to its domination of the entire Mediterranean. Focuses on the structures of family, government, and military that allowed for this ascendancy. Includes Rome's cultural evolution, social relationships, wealth, and women's roles. Meets Multicultural requirement.

EUH 3431 Modern Italy
Department: History
3.0 sh (may not be repeated for credit)

Overview of Italian history in the modern period (from 1789 to the present) with particular emphasis on the creation of the Italian state; its nationalist ambitions in Europe and abroad; the rise of fascism; and the political, social, economic, and cultural developments since World War II.

EUH 3500 England to 1485
Department: History
3.0 sh (may not be repeated for credit)

Development of England from the time of the Roman invasions to the beginning of the Tudor period. Focuses especially on how social and political alliances affected kingship, on how foreign influences molded what it meant to be "English," and on how economic change helped create the world in which Robin Hood would become a hero. Credit cannot be received for both EUH 3500 and EUH 3501.

EUH 3502 England Since 1485
Department: History
3.0 sh (may not be repeated for credit)

Political, social, cultural and intellectual history of England in modern period stressing growth and development of Britain and Empire/ Commonwealth in contemporary world.

EUH 3570 Russia to 1917
Department: History
3.0 sh (may not be repeated for credit)

Beginning with the formation of Kievan Russia in the 10th century, traces the history of Russia until the October Revolution of 1917. Topics considered include the Mongol yoke, the expansion of Muscovy, imperial Russia, the rise of socialism, and the First World War.

EUH 3576 Soviet Union since 1917
Department: History
3.0 sh (may not be repeated for credit)

Starting with the October Revolution of 1917, this course traces the history of the Soviet Union through its disintegration in the early 1990s. Topics considered include War Communism, Lenin's New Economic Policy, Stalinism, the Khrushchev and Brezhnev eras, Gorbachev's reforms, the collapse of the Soviet Union, and the emergence of successor states. Meets Multicultural requirement.

EUH 4142 Renaissance and Reformation
Department: History
3.0 sh (may not be repeated for credit)

A topical introduction to the major changes affecting European society from 1300 to 1650. Focuses on economic change, social stratification, cultural diffusion, political rivalries, and religious crossroads. Special coverage of consumerism, social welfare, education, toleration, and women and families.

EUH 4190 Age of Discovery
Department: History
3.0 sh (may not be repeated for credit)

In the late fifteenth through the seventeenth century Europeans set sail beyond known coastlines to explore new trade routes to Africa, Asia, and the New World. Examines European expansion in maritime history and explores factors that allowed for voyages of discovery, the voyages themselves, and the results of initial cultural contact.

EUH 4239 Europe's Expansion Overseas
Department: History
3.0 sh (may not be repeated for credit)

Nature, causes and incentives of modern European imperialism. Emphasis on "New Imperialism," 1870-1914. Meets Multicultural requirement.

EUH 4242 The First World War
Department: History
3.0 sh (may not be repeated for credit)

Origins, evolution and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany's culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflict in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 5246; graduate students will be assigned additional work.

EUH 4245 Interwar Europe 1918-1939
Department: History
3.0 sh (may not be repeated for credit)

Examines events in selected countries of Europe between the First and Second World Wars. Lectures and readings will consider many aspects of European life, with an emphasis on political, economic, and social issues. In each section, the focus will be on how states cultivated or failed at maintaining representative democracy.

EUH 4334 Czechs and Slovaks in the Modern Era
Department: History
3.0 sh (may not be repeated for credit)

Located in the heart of Europe, the Czechs and Slovaks are an integral part of European history. Examines these two Slavic ethnic groups, beginning in the middle ages. It will consider the Bohemian kingdom, the Slovaks under the Hungarians, and the separate development of the Czechs and Slovaks in the Habsburg Monarchy. Most of the course will focus on the late nineteenth and twentieth centuries, when the two ethnic groups experienced interrupted state-building experiences. Through the history of the Czechs and Slovaks, students will achieve a better understanding of East-Central Europe and the Balkan states as these regions build market economics and pluralistic democratic political systems.

EUH 4462 Germany since 1866
Department: History
3.0 sh (may not be repeated for credit)

Beginning with unification of Germany between 1866 and 1871, this course will consider the history of imperial Germany, the Weimar Republic, the Third Reich, divided Germany after 1945, and Germany's reunification in 1989-90.

EUH 4465 Nazi Germany
Department: History
3.0 sh (may not be repeated for credit)

Origins, evolutions and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Various military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad para-military organizations within the Nazi Party. Offered concurrently with EUH 5467; graduate students will be assigned additional work.

EUH 4503 English Constitutional and Legal History
Department: History
3.0 sh (may not be repeated for credit)

English constitutional history from Anglo-Saxon period to present; emphasis upon historical development of English governmental institutions (e.g. parliament, monarchy and legal system), interpretation of their interrelationship and their overall impact upon English nation. Much use of primary sources.

EUH 4511 Tudor and Stuart England
Department: History
3.0 sh (may not be repeated for credit)

England at home and in international relations during the Tudor and Stuart dynasties (1485-1714). Strong emphasis on overall development and use of primary sources. Offered concurrently with EUH 5517; graduate students will be assigned additional work.

EUH 4521 Victorian England
Department: History
3.0 sh (may not be repeated for credit)

England and British Empire in 19th century: emphasis upon economic, social, cultural and constitutional history.

EUH 4535 England and America from the Colonial Period to Present
Department: History
3.0 sh (may not be repeated for credit)

Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British empire. Offered concurrently with EUH 5539; graduate students will be assigned additional work.

EUH 4541 The Scottish Enlightenment
Department: History
3.0 sh (may not be repeated for credit)

Examines the political, social, economic, philosophical, cultural, and religious developments unique to 18th century Scotland. Known widely as the Scottish Enlightenment, the events, ideas, and individuals that defined this unique and influential phenomenon will also be studied in light of the larger enlightenment concomitantly consuming the continent of Europe, and the pivotal impact the Scots had on the development of the American colonies and the American founding.

EUH 4545 British Political Thought in the Early Modern Era
Department: History
3.0 sh (may not be repeated for credit)

The development of political thought in the British Isles during the Tudor, Stuart, and Hanoverian periods, from the accession of Henry VIII to the death of George IV.

EUH 4563 Habsburg Monarchy 1526-1918
Department: History
3.0 sh (may not be repeated for credit)

Examines the Habsburg Monarchy from its inception to its demise at the end of the First World War. Covers the rise of the monarchy, dynastic affairs of the Habsburgs, problems of political integration, the Monarchy as a bastion against the Islamic Turks, the age of the Counter Reformation and the Baroque, Metternich's diplomacy after the Napoleonic Wars, economic development, constitutional difficulties, nationality problems, Viennese culture around 1900, and the Monarchy's dissolution.

EUH 4614 Medieval Women
Department: History
3.0 sh (may not be repeated for credit)

Survey of the experiences of women from the beginning of the Christian era through the Reformation. Focuses on Western Europe and pays particular attention to the social construction of sexuality, the definition of separate spheres, and the roles of law, medicine, and especially the Church in defining women's work, and social and family roles.

EUH 4640 European Agrarian and Social History
Department: History
3.0 sh (may not be repeated for credit)

Focuses on the life of peasants and farmers throughout Europe from the seventeenth century until the present to see how agriculturalists survived on the land, interacted with other social classes, contended with industrialization and urbanization, immigrated to the New World, and participated in all sorts of political systems (democratic, dictatorial, fascist, and communist). The final portion will consider the farmer's role in the European Union. Special sections will deal with folk art and music, food, literature, and other aspects of rural culture.

EUH 5184 Medieval Society and Institutions
Department: History
3.0 sh (may not be repeated for credit)

Reading/research in designated social and institutional aspects of the period 500-1500. Topics, such as manorialism and the peasantry, guilds, families, the church, and feudalism, vary from semester to semester.

EUH 5246 The First World War
Department: History
3.0 sh (may not be repeated for credit)

Origins, evolutions, and consequences of World War I. Emphasis on European affairs and how they affected the cultural, military, and political environment of the early 20th Century. Special emphasis on Imperial Germany's culture of militarism, the web of alliances between nations, and how the arms race between the great powers resulted in conflicts in Europe. Additionally, the technology, conduct, and developments of the war will be examined and discussed. Offered concurrently with EUH 4242; graduate students will be assigned additional work.

EUH 5287 The Second World War
Department: History
3.0 sh (may not be repeated for credit)

The general objective of this course is to provide students with a deeper knowledge of the origins, evolution, and consequences of World War II.

EUH 5467 Nazi Germany
Department: History
3.0 sh (may not be repeated for credit)

Origins, evolution, and consequences of the rise of Nazi Germany, ascendancy of Adolf Hitler and subsequent erosion of traditional European culture. Military and political leaders who served predominate roles within the Third Reich will be studied and discussed, as will the myriad para-military organizations within the Nazi Party. Offered concurrently with EUH 4465; graduate students will be assigned additional work.

EUH 5517 Tudor and Stuart England
Department: History
3.0 sh (may not be repeated for credit)

England at home and in international relations during the Tudor and Stuart dynasties (1485-1714). Strong emphasis on overall development and use of primary sources. Offered concurrently with EUH 4511; graduate students will be assigned additional work.

EUH 5539 England and America from the Colonial Period to the Present
Department: History
3.0 sh (may not be repeated for credit)

Intensive study and analysis of the social, cultural, economic and political forces which served both England and America during the first two centuries of the British Empire. Offered concurrently with EUH 4535; graduate students will be assigned additional work.

EUH 6295 Seminar: Interpretation of European History 1648-Present
Department: History
3.0 sh (may not be repeated for credit)

Advanced seminar in historiography of European history from the end of the Thirty Years War to the present. Focus is on the interpretation of historical writing on specific topics during the Early Modern periods of European history.

EUH 6338 Seminar: East Central Europe and the Balkans
Department: History
3.0 sh (may not be repeated for credit)

Students will examine a specific aspect of a state, ethnic group, or region in East-Central Europe and the Balkans since 1815. Requires readings and reports, but the largest portion of the grade is based on an analytical research paper using primary and secondary sources.

EUH 6615 Seminar: Gender & Community in the Middle Ages
Department: History
3.0 sh (may not be repeated for credit)

Examines gendered experiences in and contributions to medieval Europe, especially the context and factors that shaped attitudes and the makeup of medieval families.

EUH 6666 European Ideologies and Political Movements Since 1789
Department: History
3.0 sh (may not be repeated for credit)

Examines the great political ideologies, movements, and theories that shaped not only European affairs but Western thought as a whole from the time of the French Revolution to the present.

EVR - ENVIRONMENTAL STUDIES

EVR 3894 Environmental Writing
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: ENC 1101 and ENC 1102

Practice in the scientific methods, research approaches, reference styles, grantsmanship, and technical writing in the environmental sciences. (Gordon Rule Course: Wrtg)

EVR 4023 Coastal and Marine Environments
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GLY 2010, GLY 2010L or GEO 1200, GEO 1200L. Junior Standing.

The world's ocean and its marine environments such as beaches, estuaries, coral reefs, upwelling areas, and hydrothermal vents. The physical, chemical, and biologic components that make each environment unique. Case studies of the environmental impact of anthropogenic and natural phenomena based on readings of scientific papers.

EVR 4035 Environmental Law
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Overview of current local, state and federal laws relating to the environment. Includes the legal history of current laws and case studies.

EVR 4037 Environmental Auditing
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or GLY 3031C.

Overview of the evolution of environmental regulations and the adoption of environmental initiatives by the private business sector. Compliance audits, property assessments, and contingent liability audits will be conducted.

EVR 4050 Environmental Field Research
Department: Environmental Studies
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GEO 2330, GEO 3372, GEO 4151

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS/MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 5061; graduate students will be assigned additional work.

EVR 4412 Environmental Aspects of Urban Growth
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 5413; graduate students will be assigned additional work. Senior standing is required.

EVR 4823 Environmental Impact Assessment
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or ANT 2100 or GEO 2330

Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 5824; graduate students will be assigned additional work.

EVR 4870 Land-Use Management
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or GLY 3031C

Overview of the history and direction of land use in America, with specific emphasis upon growth management and the balancing of development with the protection of the environment and the preservation of the quality of life. Geographic focus is upon urban growth fringes in the United States and Northwest Florida in particular.

EVR 4941 Practicum in Environmental Studies
Department: Environmental Studies
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GEO 3372 or GLY 3031C.

Supervised field experience in business, government, non-profit, educational or other environmental organization. Offered concurrently with EVR 5332; graduate students will be assigned additional work. Permission is required.

EVR 5061 Environmental Field Research
Department: Environmental Studies
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GEO 2330, GEO 3372, GEO 4151

Environmental and geographic sciences field study. Students work with scientists collecting discrete samples and conducting field surveys, use GIS/MIS technology, and analyze results. Fieldwork will be coordinated with non-university research agencies. Permission is required. Offered concurrently with EVR 4050; graduate students will be assigned additional work.

EVR 5332 Practicum in Environmental Studies
Department: Environmental Studies
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: Graduate Standing

Supervised field experience in business, government, nonprofit, educational or other environmental organizations. Offered Summer term only. Offered concurrently with EVR 4941; graduate students will be assigned additional work. Permission is required.

EVR 5413 Environmental Aspects of Urban Growth
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

The purpose is to examine urban areas as they have sprawled out over green landscapes during the past century and left behind a legacy of environmentally distressed properties and broken communities. Emphasis is upon

community-based action to deal with local situations, using as a base the experiences of communities throughout the United States. Offered concurrently with EVR 4412; graduate students will be assigned additional work. Graduate status is required.

EVR 5824 Environmental Impact Assessment
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Environmental Impact Assessment (EIA) is a process to assure disclosure of environmental consequences before human actions are taken. This course introduces students to the legal, scientific, and administrative considerations and procedures that define the EIA process in completing an Environmental Impact Statement (EIS). The course focuses on the concept of environmental impact and the techniques and responsibilities as set forth in the National Environmental Policy Act of 1970 as amended. Offered concurrently with EVR 4823; graduate students will be assigned additional work.

EVR 6930 Special Topics in Environmental Sciences
Department: Environmental Studies
3.0 sh (may be repeated for up to 9.0 sh of credit)

Covers various advanced subjects in the environmental sciences, depending on the specialization of the instructor. Topics include environmental pedagogy, coastal meteorology, groundwater modeling, etc. Graduate-level standing is required.

EVS - ENVIRONMENTAL SCIENCE

EVS 6196C Sampling and Analysis in Environmental Sciences
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 3260, GEO 3260L, GEO 4280, GEO 4280L.

Theory and techniques of modern field and laboratory methods used for physical and chemical analysis of soil, sediment, and water samples. Procedures for exploratory data analysis and interpretation. Emphasis will be upon the collection of samples and their subsequent analysis. Written reports and oral presentations are required. Material and Supply Fee will be assessed.

EVS 6940 Internship
Department: Environmental Studies
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Supervised and structured participation in environmental work experience in the private, government, or educational sectors. Permission is required.

EVS 6971 Thesis
Department: Environmental Studies
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

EVT - EDUCATION: VOCATIONAL/TECHNICAL

EVT 3065 Principles of Career and Technical Studies
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Provides an opportunity to develop philosophy of career and technical studies through the understanding of basic concepts and principles underlying education for occupational competency.

EVT 3124 Integrated Methods I
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Skills and knowledge to integrate specialized content across the middle level curriculum. Instructional tools and ways to organize and communicate information are examined.

EVT 3165 Course Construction for Career and Technical Teaching
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Organization of instruction for career and technical teaching. Evaluation of career and technical philosophy in determining objectives and constructing course materials in career and technical studies programs.

EVT 3367 Career and Technical Instructional Evaluation
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Testing and evaluating career and technical instruction. Methods of evaluating student progress in all levels of career and technical instruction; emphasis on principles, preparations, administration and evaluation of picture, performance, oral and written exams.

EVT 3945 Supervised Field Problems
Department: Engineering and Computer Technology
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Problems in industrial-vocational environment through arrangement by assigned instructor.

EVT 4094 Technological Design in Technology Education

Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Describes the importance of technological design. Introduces engineering design as a high school model.

EVT 4123 Methods for Teaching Middle School/High School Technology Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Prepares teachers to teach technology education in middle and high schools. Provides instruction in standards based instructional planning, methods, resources, and assessment.

EVT 4143 Exploring Technology Education Settings
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Explores the applications of technology in everyday life. Content area of focus is information and communications technologies. Prepares teachers to be able to teach the design of websites and use websites as part of the technology education program.

EVT 4144 Technology Education Systems
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Prepares teachers to be able to teach technological systems. The focus of the content is energy and power technology topics and activities in the schools.

EVT 4192 Foundations of Technology Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Prepares teachers to teach the foundations of technology. The area of content focus is construction technologies. Construction topics such as reading blueprints, building materials, framing, roofing, finishing, and related construction technologies are included in the course.

EVT 4261 Program Management in Technology Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Planning, designing, organizing, and managing the learning environment in technology education classrooms and laboratories. Includes student motivation, learning management systems, and the basics of drafting and design.

EVT 4304 Impacts of Technology for Technology Systems
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

The major impacts of technology with focus on transportation technologies. Prepares teachers to be able to teach transportation technologies and transportation systems. Special emphasis is placed on automotive technologies.

EVT 4310 Strategies for Planning and Operating Health Occupations Education
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Developing strategies and teaching techniques for planning and operating health occupations education programs.

EVT 4313 Technology Education Assessment
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Technology assessment with an emphasis on medical and bio-related technologies.

EVT 4380 Special Methods In Career and Technical Studies
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Provides opportunity to become proficient in using special methods and procedural activities in career and technical studies classes.

EVT 4381 Special Methods of Teaching Business Education
Department: Engineering and Computer Technology
4.0 sh (may not be repeated for credit)

Provides opportunity to become proficient in using special methods and procedural activities in business technology education classes. Offered concurrently with EVT 5385; graduate student will be assigned additional work.

EVT 4560 Selection and Guidance of Career and Technical Studies Students
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Methods of selecting and guiding students into career and technical education programs. Emphasis on career selection and placement procedures.

EVT 4562 Introduction to Career and Technical Special Needs Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Introduces historical evolution, legislative development and instructional methodologies in career and technical special needs education.

EVT 4694 Invention and Innovation for Technology Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

The effects of invention and innovation on society. Content focus is on manufacturing technologies. Prepares teachers to be able to teach materials and manufacturing processes technology.

EVT 4930 Seminar
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

EVT 5175 Curriculum and Staff Development for Career and Technical Education Programs
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Curriculum development procedures for community career and technical and adult education needs; procedures for selecting faculty and support personnel for staffing curricula; and procedures for conducting effective pre-service and in-service staff development programs.

EVT 5195 Integrated Learning Environment Portfolios
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Producing a management portfolio for an integrated learning environment.

EVT 5260 Coordination and Management of Cooperative Career and Technical Education Programs
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Establishing and managing cooperative and specialized programs. Emphasis on promotion of school, community and employment relationships.

EVT 5266 Administration and Supervision of Career and Technical Education Programs
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Administrative and supervisory functions in creating new programs and maintaining existing programs to adequately serve community needs in career and technical and adult education programs.

EVT 5319 Bio-Technology and Medical Technology Assessment
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Focuses on technology assessment including project-based and problem-based learning, medical, and bio-related technologies. Prepares teachers to be able to teach and assess standards based student outcomes. Content focus is agricultural, medical, and biotechnology design, use, and societal issues.

EVT 5364 Advanced Methodology for Technology Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Curriculum for standards based instruction, planning, and various methodologies.

EVT 5565 Career and Technical Special Needs Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Historical developments, legislation, instructional strategies and problems associated with instructing special-needs students in career and technical studies related environments.

EVT 6145 Technology Education and Manufacturing
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

An integrated methods approach to describe the effects of invention and innovation on society. The content focus is on manufacturing technologies. Prepares teachers to be able to teach materials and manufacturing processes technology.

EVT 6146 Advanced Technology Education Exploration
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

A research-based approach to exploring the applications of technology in everyday life. Area of focus is information and communications technologies. Prepares students to be able to teach the design of websites and use websites as part of the technology program.

EVT 6147 Technology and Engineering Design
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Uses a design brief focus to describe the importance of technological design. Also introduces engineering design as a high school model.

EVT 6148 Technology Education and Construction Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Uses a construction technology approach to describe the importance of technological design. Topics include the nature and impact of technology.

EVT 6156 Integrated Curriculum
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Classroom instruction and student engagement as it applies to learning and research.

EVT 6196 Energy and Power Career Technology
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

A case study approach to prepare candidates to be able to teach technological systems. Focus is on energy and power technology topics and activities in the schools.

EVT 6408 Technology Transportation Systems
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Employs a research-based approach to the major impacts of technology with focus through transportation technologies. Also prepares teachers to be able to teach transportation technologies and transportation systems. Special emphasis is placed on automotive technologies.

EVT 6561 Selection and Guidance of Career and Technical Studies
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Concentrates on the achievement of skills used by teachers as they gather student data, confer with students and help them plan for employment or further education.

EVT 6664 School Involvement and Community Relations
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Career and Technical Studies as a part of the community implications for industrial, labor and community relations; school-community/ employee-employer relationships; interpreting career and technical programs to the public; role of the career and technical administrator/teacher. Evaluation of related activities.

EVT 6669 Trends and Issues In Career and Technical Education
Department: Engineering and Computer Technology
3.0 sh (may not be repeated for credit)

Basic philosophical and curricula trends and issues in career and technical education at the international, national, state and local levels.

EVT 6970 Thesis
Department: Engineering and Computer Technology
1.0-6.0 sh (may be repeated for up to 8.0 sh of credit)

Design, research and presentation of a master's thesis under the direction of the faculty committee. Graded on a satisfactory/ unsatisfactory basis only.

EXP - EXPERIMENTAL PSYCHOLOGY

EXP 3082 Experimental Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023
Co-requisite: EXP 3082L

Scientific method and experimental techniques in psychology. Fundamental assumptions and principles of scientific observation and research design are discussed. Students learn a number of techniques specific to psychological research. Relevant ethical issues are addressed. Students will learn to interpret and evaluate research and to communicate research findings.

EXP 3082L Experimental Psychology Lab
Department: Psychology
1.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023
Co-requisite: EXP 3082

Scientific method and experimental techniques in psychology. Students will conduct a series of exercises and laboratory experiments, perform and interpret statistical analysis of data collected, and report experimental findings in standard technical format.

EXP 4204 Sensation and Perception
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023, EXP 3082

Will survey the theory and literature related to the study of sensation and perception. Topics will include the neural mechanisms involved in coding sensory information, visual processing, audition, speech perception, cutaneous and chemical senses, development of perceptual processes, and impairment of vision and hearing.

EXP 4250 Human Factors Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is

designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 5256; graduate students will be assigned additional work.

EXP 4404 Psychology of Learning
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Principles and applications of learning theories, including conditioning and extinction, reinforcement and punishment, attention, memory, cognitive processes and physiological correlates of memory and cognition. It is preferred that the student has had several other psychology courses.

EXP 4507 Memory and Cognition
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012, STA 2023, EXP 3082

Will Survey theory and literature related to the study of human memory and cognition. Topics will include attention, memory, imagery, language and bilingualism, problem solving, metamemory, expertise, and the development of language and cognitive processes.

EXP 4507L Laboratory in Memory and Cognition
Department: Psychology
1.0 sh (may not be repeated for credit)
Prerequisite: STA 2023, EXP 3082, EXP 3082L, EXP 4404
Co-requisite: EXP 4404

Students will learn about the research methods used to investigate topics in memory and cognition. Students will conduct experiments, perform statistical analysis appropriate for the data generated, and prepare brief reports of results using APA style. Students will complete a final project in which they design and conduct an experiment in the area of memory and cognition, analyze the data, and prepare an APA style research report.

EXP 5208 Advanced Sensation and Perception
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: EXP 4204 or PSB 4003

Students will develop an in-depth understanding of how human beings use environmental energies to sense and perceive the world. Topics include the examination of neural systems involved in vision, audition, somatosensation, olfaction, and gustation. Physiological, psychophysical, and cognitive research methodologies used to understand and predict human perception will be discussed.

EXP 5256 Human Factors Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Surveys the field of human factors psychology. Specifically, the principles of psychology from various specialty areas (e.g., cognitive, experimental, industrial/organizational, physiological etc.) will be applied to the study of human performance in work settings. Students will learn how work is designed to capitalize on cognitive and physical capabilities and compensate for human limitations. Students will also become familiar with the tools and techniques that human factors psychologists use to study human-machine interaction and work design. Offered concurrently with EXP 4250; graduate students will be assigned additional work.

EXP 5575 Judgment and Decision Making
Department: Psychology
3.0 sh (may not be repeated for credit)

Seminar on current theories of human judgment and decision making. Normative models of decision making (based in statistics, philosophy, psychology, and economics) and descriptive models of decision making (based on research in cognitive psychology and social psychology) will be discussed. Naturalistic decision making and the role of expertise in judgment and decision making will also be discussed. Topics include judgment and decision making under a variety of conditions of uncertainty, including aviation, diagnosis and treatment decision in clinical psychology and medicine, forecasting, risk assessment, and jury decisions.

EXP 6506 Advanced Cognitive Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: EXP 3082 and EXP 4404

Students will develop a broad understanding of current research and theorizing in the various topics of memory and cognition, including attention, memory systems and processes, representation of knowledge, metamemory, language, problem solving, expertise, decision making, and creativity. Emphasis will be placed on current research and theory in human memory cognition. Students will develop an in-depth understanding of a selected topic in cognition and will write a literature review paper discussing current research and theory in this topic.

F FAS - FISHERY AND AGRICULTURAL SCIENCE

FAS 4000 Aquaculture
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: FAS 4000L

Husbandry of commercially valuable organisms in aquatic environments; consideration of culture methods for all stages

of life cycles and biological, ecological and economic factors that control productivity. Required lab. Material and supply fee will be assessed for corresponding lab. Offered concurrently with FAS 5406, graduate students will be assigned additional work.

FAS 5406 Aquaculture
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: FAS 5406L

Husbandry of commercially valuable organisms in aquatic environments; consideration of culture methods for all stages of life cycles and biological, ecological and economic factors that control productivity. Required lab. Material and supply fee will be assessed for corresponding lab. Offered concurrently with FAS 4000, graduate students will be assigned additional work.

FIL - FILM

FIL 4036 History of Motion Pictures I
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 5038; graduate students will be assigned additional work. Credit may not be received in FIL 4036 and either FIL 4036C or FIL 4403C.

FIL 4037 History of Motion Pictures II
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Significant development in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screenings. Offered concurrently with FIL 5039; graduate students will be assigned additional work. Credit may not be received in FIL 4037 and either FIL 4037C or FIL 4404C.

FIL 4102 Writing for Film-Television-Radio
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Study and practice of writing for the mass media: screenplays, teleplays, radio and TV commercials, public affairs. Study of various scriptformats, story board and other presentational material. (Gordon Rule Course: WRTG) Credit may not be received in both FIL 4102 and MMC 4103.

FIL 4117 Advanced Film Writing
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: MMC 4103

Study and practice of writing full-length feature film script.

FIL 4364 Documentary Film and Television
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Historical and sociological study of the development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 5367; graduate students will be assigned additional work. Credit may not be received in both FIL 4364 and FIL 4300.

FIL 4435 Digital Film Making
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: FIL 4854 or FIL 5855
Co-requisite: MMC 4103

Introduction and practice in all three phases of film production: pre-production planning, scripting, cinematography and editing. Utilization of digital cameras and non-linear editing. Production of short films by each student. Offered concurrently with FIL 5437; graduate students will be assigned additional work. Credit may not be received in both FIL 4435 and FIL 4601. Permission is required.

FIL 4439C Practicum: Film Production
Department: Communication Arts
3.0 sh (may be repeated for up to 10.0 sh of credit)
Prerequisite: FIL 4435

Practical experience in advanced film production. Permission is required.

FIL 4556 Nonlinear Editing
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: FIL 4435

Guides the intermediate filmmaking student through more advanced experiences in analyzing and editing motion picture projects in the digital non-linear environment.

FIL 4854 Film Technique and Style
Department: Communication Arts
3.0 sh (may not be repeated for credit)

A film is the successful combination of two distinct groups of elements; (1) technical elements by which the film is made (cinematography, lighting, sound, and editing) and (2) aesthetic elements that transform the craft into an art. This course combines the study of these elements by providing technical information about the process of filmmaking while isolating and exploring the aesthetic elements that motivate and inspire this process. The emphasis throughout is on the relationship between the techniques of filmmaking and their

creative application by the scriptwriters, cameramen, film editors, actors and directors, and other creative forces. Offered concurrently with FIL 5855; graduate students will be assigned additional work. Permission is required.

FIL 5038 History of Motion Pictures I
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Evolution of film as a dynamic art form and medium of mass communication. Weekly film screening. Offered concurrently with FIL 4036; graduate students will be assigned additional work. Credit may not be received in FIL 5038 and either FIL 5038C or FIL 5407C.

FIL 5039 History of Motion Pictures II
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Significant developments in world cinema from 1945 to present; emphasis on major postwar directors and new styles and forms. Weekly film screening. Offered concurrently with FIL 4037; graduate students will be assigned additional work. Credit may not be received in FIL 5039 and either FIL 5039C or FIL 5408C.

FIL 5367 Documentary Film and Television
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Historical and sociological study of development of documentary film and television. Includes analysis of documentary film techniques and viewing of selected documentaries. Offered concurrently with FIL 4364; graduate students will be assigned additional work. Credit may not be received in b both FIL 5367 and FIL 5306.

FIL 5437 Digital Film Making
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: MMC 4103 and FIL 4854; or FIL 5855
Co-requisite: MMC 4103

Introduction and practice in all three phases of film production: pre-production planning, scripting, cinematography and editing. Utilization of digital cameras and non-linear editing. Production of short film by each student. Offered concurrently with FIL 4435; graduate students will be assigned additional work. Credit may not be received in both FIL 5437 and FIL 5705.

FIL 5855 Film Technique and Style
Department: Communication Arts
3.0 sh (may not be repeated for credit)

A film is a successful combination of two distinct groups of elements: (1) technical elements by which the film is made (cinematography, lighting, sound and editing) and (2) aesthetic elements that transform the craft into an art. This course combines the study of these elements by providing technical information about the process of filmmaking while isolating and exploring the aesthetic elements that motivate and inspire this process. The emphasis throughout is on the relationship between the techniques of filmmaking and their creative application by the scriptwriters, cameramen, film editors, actors and directors, and other creative forces. Offered concurrently with FIL 4854; graduate students will be assigned additional work. Permission is required.

FIN - FINANCE

FIN 3140 Personal Financial Planning
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)

Personal management of bank credit, insurance, investments and home ownership, taxes, elementary estate planning. Can be used by finance or accounting majors only as a general business elective.

FIN 3244 Financial Markets and Institutions
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2021, ACG 2071, ECO 2013, ECO 2023

Structure and functions of financial markets and institutions; interest rates, exchange rates, intermediation, and markets.

FIN 3403 Managerial Finance
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: Business Majors: ECO 2013, ECO 2023, STA 2023, ACG 2071, MAC 2233; Non-Business Majors: MAC 1105, STA 2023, ECO 3003

Analytical concepts available to financial manager in acquisition and effective utilization of funds in relation to other management functions.

FIN 3949 Cooperative Education
Department: Accounting & Finance
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

FIN 4145 Portfolio Planning for Individual Investors
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)

Portfolio planning for individual investors with emphasis on preparing an individual portfolio containing stocks, bonds, money market securities, and real estate.

FIN 4324 Commercial Bank Management
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3244, FIN 3403

Measurement and management of the risks and returns assumed by commercial banks and near banks. Current issues in financial intermediation. Includes theory and practice.

FIN 4414 Financial Theory and Practice
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Designed as an extension of FIN 3403. Topics such as risk and return, stock and bond valuation, time value of money, and capital budgeting, will be covered in greater depth. New topics will include lease financing, hybrid financing, international finance, et al.

FIN 4424 Problems in Corporate Finance
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Cases and readings in corporation finance in areas of capital budgeting, working capital management, capital structure, cost of capital, mergers, reorganizations, and international finance.

FIN 4440 Controllership
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403; and either ACG 3111 or ACG 3343

Introduction to the controllership function within an economic entity. Emphasis is placed upon budgeting and working capital management and control.

FIN 4504 Investments
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403

Introduction to an extensive development of theoretical concepts related to areas of securities analysis and portfolio management.

FIN 4514 Security Analysis and Portfolio Management
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 4504

Portfolio construction, management and measurement bridging modern theory and practice.

FIN 4941 Financial Services Internship
Department: Accounting & Finance
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: FIN 3403

Supervised field practicum in financial services-related position. May include activities in any one or more of the functional areas in financial services (commercial banking, mutual funds and investments, insurance, real estate and personal financial planning). Graded on a satisfactory/unsatisfactory basis only. Permission is required.

FIN 6406 Financial Management
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403 and QMB 6305

Advanced treatment of investment and financing decisions of firms, emphasis on current theory and practice. Course contains a portfolio project. Permission is required.

FLE - FOREIGN LANGUAGE EDUCATION

FLE 3344 Special Methods of Teaching Foreign Languages K-12
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Designed to meet the needs of preservice and inservice foreign language teachers. Through multiple activities, students will understand the integrative approach to modern language instruction in which language is presented, taught, and assessed in meaningful contexts.

FRE - FRENCH LANGUAGE

FRE 1120C French I
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

For students with no knowledge of French or with less than two years of high school French. The purpose is to lay a foundation for speaking, writing and reading the language. One hour of lab work is required per week.

FRE 1121C French II
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

Continuation of FRE 1120C. One hour of lab work per week is required.

FRE 2200 Intermediate Reading and Translation
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

For students who have previous experience in French, but are not yet prepared for advanced work in the language.

FRE 2210 Intermediate Composition & Conversation
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Practical oral communication course for students on an intermediate level. Prepares students for FRE 2200.

FRE 3500 French Civilization I
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

French civilization in a historical, cultural and artistic perspective.

FRE 4955 Supervised Foreign Language Field Experience Abroad
Department: English & Foreign Language
1.0-3.0 sh (may be repeated for up to 99.9 sh of credit)

Supervised and individualized foreign language experience tailored to each student's individual proficiency needs in language and culture. Permission is required. Meets Multicultural requirement.

GEA - GEOGRAPHY: REGIONAL AREAS

GEA 2000 Nations and Regions of the World
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Regional treatment of the physical & cultural environments of the world. Interdependence of peoples and nations of the world will be stressed within the context of environmental attributes and shortcomings and human responses to environmental opportunities or limitations. (General Studies Course: SS/SOC) Meets Multicultural requirement.

GEA 4212 Geography of North America
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEA 2000

A regional survey of the United States and Canada, with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 5214; graduate students will be assigned additional work. Credit cannot be received for both GEA 4212 and GEA 4210.

GEA 4405 Geography of Latin America
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A regional survey of Latin America and the Caribbean, with emphasis upon places, names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 5408; graduate students will be assigned additional work. Meets Multicultural requirement. Credit cannot be received for both GEA 4405 and GEA 4400.

GEA 4635 Geography of the Middle East
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEO 5637; graduate students will be assigned additional work.

GEA 4730 Geography of Japan
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, culture, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 5731; graduate students will be assigned additional work.

GEA 5214 Geography of North America
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEA 2000

A regional survey of the United States and Canada with emphasis upon place-names, physical landscapes, historical settlement patterns, culture regions, cultural diversity, and environmental issues. Offered concurrently with GEA 4212; graduate students will be assigned additional work.

GEA 5408 Geography of Latin America
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A regional survey of Latin America and the Caribbean with emphasis upon place-names, physical environments, cultural-historical landscapes, and geopolitical and environmental issues. Offered concurrently with GEA 4405; graduate students will be assigned additional work.

GEA 5637 Geography of the Middle East
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A regional survey of the Middle East with emphasis upon place-names, physical landscapes, historical settlement patterns, cultural regions, cultural diversity, environmental issues, and development patterns. Offered concurrently with GEA 4635; graduate students will be assigned additional work.

GEA 5731 Geography of Japan
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A survey of Japan with emphasis on regional and temporal variations in physical landscapes, settlement, cultures, and environmental issues. Both the contemporary and historical geography of Japan will be discussed. Offered concurrently with GEA 4730; graduate students will be assigned additional work.

GEB - GENERAL BUSINESS

GEB 1011 Introduction to Business
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Provides in-depth coverage of all aspects of business by presenting an integrated and balanced review of the external and internal forces that comprise business and economic systems. Intended primarily for freshmen/sophomores to assist the student's selection of a business career or business major. (General Studies Course: SS/SOC)

GEB 3004 Career Strategies
Department: Dean - Business
2.0 sh (may not be repeated for credit)

Focuses on students' transition from college to the next step out of college. The mechanics of the job search and preparation for life after college will be discussed. Students will learn proper resume and professional correspondence development, interviewing scenarios, practice the fine art of networking, and develop a job search plan. Other topics such as business etiquette and dress, alternative career paths, and personal financial management/budgets will be discussed. Graded on a Satisfactory/Unsatisfactory basis only.

GEB 3032 Business Foundations for Non-Business Majors
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Provides non-business students a foundation in the functional areas of management, marketing, finance, accounting and economics. Designed to provide students with a knowledge base that will give access to a broad range of upper level business courses. Available only to non-business majors.

GEB 3213 Writing for Business: Theory and Practice
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ENC 1101, ENC 1102

Augments the basics of business writing while reviewing the various kinds of written business correspondence. Students are expected to integrate ethical decision making skills, word processing skills, grammar and writing skills, and analytical thinking skills into the content. Students must be able to determine solutions to problem based exercises. Team assignments and oral presentations may relate to student's discipline. (Gordon Rule Course: Wrtg)

GEB 3453 Business Ethics and Stakeholder Management
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2071, ECO 2023, MAN 3025

Managers are confronted with increasingly complex environments and face challenges trying to balance economic, legal, and ethical responsibilities vis a vis the stakeholder groups with which they interact. This course investigates the spectrum of business ethics and social responsibility issues that managers face in today's organizations. Course will be grounded in contemporary events and addresses these challenges from an individual and a managerial perspective.

GEB 4361 International Business
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403, MAN 3025, MAR 3023

Introduces students to the complexities of conducting business on a global scale. Businesses typically develop in a domestic setting and then expand into international commerce. Focuses on the necessary adaptations of business practices for success in global markets. Offered concurrently with GEB 5365; graduate students will be assigned additional work. Meets Multicultural requirement.

GEB 4935 Digital Enterprise Senior Capstone
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: COP 4710, ISM 3011, MAN 3025, MAR 3023

Provides senior-level students in the IIT Program Digital Enterprise track with an experiential capstone learning opportunity. Content will vary to reflect cutting-edge digital enterprise topics. Students will complete a project and will be required to do a formal presentation of their work. This course should be taken during the student's last semester of the program. Senior standing is required.

GEB 4942 Internship Pensacola: Professional Development Seminar

Department: Dean - Business
3.0 sh (may not be repeated for credit)

Taken in conjunction with an internship. Designed to enhance the internship experience by presenting topics to help students succeed in an internship and career. Seminar format includes discussion of readings, oral presentations, group discussions, role-playing, and in-class reflections. Guest speakers will present in their areas of expertise. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

GEB 5445 Business, Ethics & Society
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Relationship of business institution to values and institutions outside its own formal organization. Study of trend toward increased corporate social responsibilities and changes in the legal environment.

GEB 5870 MBA Foundations: e-Business Systems
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: GEB 5872, GEB 5875

A course in the Accelerated MBA Foundations Series in which students will gain an understanding of the principles of E-Business systems planning, development, and implementation. The overall objective is to provide a common foundation composed of the fundamental concepts required for the use and application of systems and technologies found in the E-Business environment. Permission is required.

GEB 5871 MBA Foundations: Managerial Economics
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)

A course in the Accelerated MBA Foundations Series in which students will gain an understanding of basic economics. Special emphasis will be placed on the determinants of supply and demand and the desirable properties of a competitive equilibrium; followed by the undesirable properties of markets with a monopoly and with externalities. Permission is required.

GEB 5872 MBA Foundations: Financial Management I
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to the accounting process of analyzing, measuring, and reporting business activity. Explores the precise language, assumptions, concepts, principles, and logic patterns inherent in the analysis and measurement of business activity. Describes the form and content of major financial statements. Briefly introduces the recording and reporting process used by accounting systems and examines basic financial reporting issues.

GEB 5873 MBA Foundations: Financial Management II
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: GEB 5872

A course in the Accelerated MBA Foundations Series in which students who have an understanding of financial accounting are introduced to the business relationships that exist between the generation and use of financial information. Includes the role of accounting in measuring financial performance, an overview of financial management, keys to understanding financial information via financial ratio analysis, effective use of financial analysis, and a brief introduction to the time value of money.

GEB 5874 MBA Foundations: Financial Management III
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: GEB 5872, GEB 5873

A course in the Accelerated MBA Foundations Series in which students with an understanding of financial analysis are introduced to financial valuation and decision making tools that are used by managers and owner/managers of business organizations. The three foundation concepts covered are the Time Value of Money, the Risk- Return Relationship, and the use of Incremental After-Tax Cash Flows. Provides a theoretical understanding and a practical application in financial decision-making. Permission is required.

GEB 5875 MBA Foundations: Management Skills and Applications
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)

Covers the historical evolution of management, organizational design, motivation, team building, leadership, change management, culture, strategic planning, and critical implementation/control elements critical to successful management and strategy. Social responsibility, ethics, globalization, and futures are also stressed.

GEB 5876 MBA Foundations: Marketing Management
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)

A course in the Accelerated MBA Foundations Series in which students are introduced to foundational concepts of marketing management processes. Provides students with intensive exposure to the basic philosophy, concepts, and knowledge common to effective marketing management.

GEB 5877 MBA Foundations: Applied Managerial Statistics
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: MAT 1033

A course in the Accelerated MBA Foundations Series in which students are provided with a managerial approach to fundamental statistical concepts including descriptive statistics, measures of location, measures of dispersion, basic probability theory, the normal distribution, inferential statistics, basic notions of hypothesis testing, and introduction to correlation analysis. Permission is required.

GEB 5878 MBA Foundations: Business Process Integration
Department: Business Administration - General
1.5 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: Completion of the Accelerated MBA Foundations Series: GEB 5871 - GEB 5876.

The capstone course in the Accelerated MBA Foundations Series in which students must combine the practical skills and discipline of specific concepts learned in previous foundation courses in order to solve a complex integrated real-life business problem. Serves as an initial integrating experience from which to launch students into the core MBA study. Permission is required.

GEB 5879 MBA Foundations: Business Analysis
Department: Business Administration - General
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Business requires the application of a variety of analytical tools. Integrates several key analytical tools into a specific business decision framework that focuses on the interrelationship of these tools as they are used in business decisions. After an on-line review/introduction of basic algebraic and financial equations, combines the concepts of time value of money, descriptive statistics, production functions, correlation, simple regression and specifically applied calculus into a decision-making framework. This framework will serve as a foundation for analysis in subsequent courses and create a model for considering risk adjusted financial consequences of future business decisions. Permission is required.

GEB 5930 MBA Foundations: Information Resources and Industry Analysis
Department: Business Administration - General
1.5 sh (may not be repeated for credit)

Provides the background for beginning the MBA Portfolio. Gives introduction to information resources available to perform business problem analysis. Students learn to prepare a thorough analysis of their Portfolio industry.

GEB 6116 Venture Development
Department: Business Administration - General
3.0 sh (may not be repeated for credit)
Prerequisite: GEB 6118

Students learn how to develop a start-up business. Includes constructing a board of directors, adding managers for key functions, reaching revenue targets and ultimately going public.

GEB 6118 New Ventures
Department: Business Administration - General
3.0 sh (may not be repeated for credit)
Prerequisite: GEB 5872, GEB 5873

Students learn how to start a new business. They develop a list of potential opportunities, evaluate the opportunities and learn how to seek seed capital (through the elevator speech and the business plan) with an eye toward the profitability horizon.

GEB 6895 Business and Public Policy
Department: Business Administration - General
3.0 sh (may not be repeated for credit)

Develops expertise in the use of a set of tools to analyze the effect of economic, regulatory and tax policies (external environment) on the business environment and the conduct of business in domestic and international markets. Ethical implications of business response to these environments are also considered.

GEO - GEOGRAPHY: SYSTEMATIC

GEO 1200 Physical Geography
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Co-requisite: GEO 1200L

Relationship between natural environment and man. Weather, climate, soils, biogeography and land forms. Physical earth treated so that the student gains appreciation of man's place and activities within his/her environment. (General Studies Course: NS/LEC) Material and supply fee will be assessed for corresponding lab.

GEO 2330 Environmental Science
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Study of interrelationships between human activity and the natural systems in our environment. Interdisciplinary approach to the study of natural processes and how they affect and are affected by human activity. Particular emphasis will be given to examination of the ways in which science offers solutions to the pressure human activity places on natural resources. (General Studies Course: NS/LEC)

GEO 3210 Geomorphology
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Prerequisite: GEO 1200, GEO 1200L or GLY 2010, GLY 2010L
Co-requisite: GEO 3210L

Description of landforms and landscapes on the Earth's surface, along with a systematic analysis of the geomorphic processes that produce them. Emphasis is placed on the climatic and geologic controls on landscape evolution. Material and supply fee will be assessed for corresponding lab.

GEO 3250 Weather and Climate
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Prerequisite: GEO 1200 or GLY 2010, GLY 2010L
Co-requisite: GEO 3250L

Nature of individual weather elements, their measurements, and analysis over time and space. Analysis of global climate emphasizing control factors, resulting areal patterns and climatic classifications. Emphasis upon North American weather and climate patterns, micro climate, climate change, modification and related problems. Material and supply fee will be assessed for corresponding lab.

GEO 3260 Geography of Soils
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 1200/L or GLY 2010/L, CHM 2200/L or CHM 2046/L, STA 2023, and MAC 1140
Co-requisite: GEO 3260L

Nature, properties and distribution of soils and their relationship to the influence of vegetation, climate, landforms, and human activity. Understanding how soils form and how and why they vary horizontally across the landscape and vertically with depth. Emphasis upon North American patterns. Occasional field trips.

GEO 3260L Geography of Soils Laboratory
Department: Environmental Studies
1.0 sh (may not be repeated for credit)
Co-requisite: GEO 3260

Deals with the nature, properties and distribution of soils and their relationship to the influence of vegetation, climate, landforms, and human activity. Intended to be fundamental soil science lab that provides hands-on experience. Field trips required. Material and supply fee will be assessed.

GEO 3372 Conservation of Natural Resources
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Nature and extent of mineral, soil, water, forest and wildlife resources and their conservation, with particular emphasis on the United States against a general background of world resources. Conservation philosophies, practices and their geographic bases. Occasional field trips may be arranged.

GEO 3421 Cultural Geography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Sociocultural distributions with emphases on social regions, spatial behavior and cultural landscapes. Topics include population, spatial diffusion and processes, race, language, religion, political organization, methods of livelihood, settlement patterns, and the regional distribution of the elements over the earth. Meets Multi- cultural requirement.

GEO 3471 Geography of World Affairs
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Geographic study of world events; environmental influences on events; impact of events on environment; ramifications of events on social, economic, political, physical and psychological worlds. Meets Multicultural requirement. Credit cannot be received for both GEO 3471 and GEO 3470.

GEO 3502 Economic Geography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Analysis of patterns, linkages and flows attendant to the production, consumption and distribution of goods and services. Production and consumption are correlated with markets which are analyzed in terms of population needs, desires and spending power.

GEO 4164 Geostatistics
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023, GIS 4043, GIS 4043L

Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 5165; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 4221 Coastal Morphology and Processes
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: Either GEO 1200 or GLY 2010, GLY2010L
Co-requisite: GEO 4221L

An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies and environmental concerns. Offered concurrently with GEO 5225; graduate students will be assigned additional work. Credit cannot be received for both GEO 4221 and GEO 4890.

GEO 4221L Coastal Morphology and Processes Laboratory
Department: Environmental Studies
1.0 sh (may not be repeated for credit)
Co-requisite: GEO 4221

Laboratory correlating with GEO 4221. Offered concurrently with GEO 5225L; graduate students will be assigned additional work. Material and supply fees will be assessed.

GEO 4280 Basic Hydrology
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Prerequisite: GLY 2010/L and STA 2023
Co-requisite: GEO 4280L

Hydrologic cycle with emphasis upon surface water components. Particular topics include: precipitation, evapotranspiration, water budget, stream flow, and underground water sources and their measurements. Material and supply fee will be assessed for corresponding lab.

GEO 4316 Landscape Biogeography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or GEO 1200

A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 5317; graduate students will be assigned additional work.

GEO 4332 Senior Seminar
Department: Environmental Studies
1.0 sh (may be repeated for up to 2.0 sh of credit)

Seminar in which timely topics pertaining to the environment are discussed and researched. Emphasis is upon professional presentation of research material. Upper level standing is required.

GEO 4333 Seminar in Environmental Issues
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 3372 or GLY 3031C

Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 5930; graduate students will be assigned additional work.

GEO 5165 Geostatistics
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023 (or equivalent)

Course reviews basic sampling and experimental design skills as a means to reintroduce data analysis using standard univariate techniques in the geosciences. Introduces spatial, multivariate and time series techniques for both pattern exploration and hypothesis testing. Offered concurrently with GEO 4164; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GEO 5225 Coastal Morphology and Processes
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GEO 1200 or GLY 2010, GLY 2010L
Co-requisite: GEO 5225L

An introduction to the world's coastal landforms, with emphasis upon dominant processes (especially waves, tides, and currents), geographical variations, human impacts and policies, and environmental concerns. Offered concurrently with GEO 4221; graduate will be assigned additional work.

GEO 5225L Coastal Morphology and Processes Laboratory
Department: Environmental Studies
1.0 sh (may not be repeated for credit)
Co-requisite: GEO 5225

Laboratory correlating with GEO 5225. Offered concurrently with GEO 4221L graduate students will be assigned additional work. Material and supply fee will be assessed.

GEO 5317 Landscape Biogeography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

A geographical perspective on the relationship between landscape pattern and the distribution, dispersal, abundance, and diversity of plant species. Course begins with a general consideration of terrestrial plant geography and then moves towards providing an understanding of landscape ecology. Offered concurrently with GEO 4316; graduate students will be assigned additional work.

GEO 5930 Seminar in Environmental Issues
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: Graduate standing

Examines a wide spectrum of current topics that are concerned with or affect the interaction between humans and the environment. Policy issues, economic processes, and natural phenomena will all be considered as each topic is analyzed and solutions to environmental problems are sought. Offered concurrently with GEO 4333; graduate students will be assigned additional work.

GEO 6118 Research Design
Department: Environmental Studies

3.0 sh (may not be repeated for credit)
Prerequisite: GEO 6936

Introduces non-thesis-track Master's students to the essentials of designing and executing a research project in the environmental sciences using the scientific method. Students will design and complete a research project.

GEO 6936 Graduate Seminar
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

An overview of the disciplinary evolution of the geosciences, the prevailing paradigms and methodologies, and current and future directions in the field. The scientific method, grant proposals, and research publications will be examined in detail.

GER - GERMAN

GER 1120C German I
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

For students with no knowledge of German or with fewer than two years of high school German. Lays a foundation for speaking, writing, and reading the language. One hour of lab work per week is required.

GER 1121C German II
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)
Prerequisite: GER 1120C

Continuation of GER 1120C. One hour of lab work per week is required.

GEY - GERONTOLOGY

GEY 4001 Gerontology
Department: Biology
3.0 sh (may not be repeated for credit)

Course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on knowledge learned from the course. Offered concurrently with GEY 5005; graduate students will be assigned additional work. Permission is required.

GEY 5005 Gerontology
Department: Biology
3.0 sh (may not be repeated for credit)

This course addresses the biology of the aging process and the impact of these changes on the older adult; it enhances the knowledge and understanding of biological changes associated with aging in humans and their manifestations for health care professionals who work with older adults. Graduate students will be required to read five review articles and submit a written summary of the findings, a set of conclusions, and recommendations which they will defend based on the knowledge learned from this course. Offered concurrently with GEY 4001; graduate students will be assigned additional work. Permission is required.

GIS - GEOGRAPHIC INFORMATION SCIENCE

GIS 3015 Cartographic Skills
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Prerequisite: GEO 1200 or GLY 2010
Co-requisite: GIS 3015L

Designed to teach students the basics of maps, including map projections, datums, grid systems, map interpretations, elements of map design, and basic field mapping. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 3100 and GIS 3015.

GIS 4035 Photo Interpretation and Remote Sensing
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Prerequisite: GIS 3015
Co-requisite: GIS 4035L

Applied skills emphasizing the fundamentals of aerial photograph interpretation and basics of multiband spectral reconnaissance of the environment-multispectral photography, infrared, microwave scanning and multifrequency radar systems. Application includes their uses in the study of cultural and biophysical phenomena. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GEO 4131 and GIS 4035.

GIS 4036 Applications in Remote Sensing
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4035 and GIS 4035L

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 5039; graduate students will be assigned additional work. Material and supply fee will be assessed. Permission is required. Credit cannot be received for both GEO 4133 and GIS 4036.

GIS 4043 Geographic Information Systems
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 3015 and GIS 3015L
Co-requisite: GIS 4043L

Spatial database will be queried to solve spatial problems, analyze related attributes, and produce computerized cartographic output. Examines spatial data structures, data acquisition, processing, management, manipulation, and analysis for interdisciplinary applications and research. Permission is required. Material and supply fee will be assessed for corresponding lab. Credit cannot be received for both GIS 4043 and GEO 4151.

GIS 4043L GIS Laboratory
Department: Environmental Studies
1.0 sh (may not be repeated for credit)
Co-requisite: GIS 4043

Lab correlating with GIS 4043. Intended to be a fundamental lab that provides hands-on experience operating a GIS. Material and Supply fee will be assessed.

GIS 4048 Applications in Geographic Information Systems
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4043L

The application of GIS methods and techniques in solving practical problems. A generic process for applying GIS techniques in problem solving is introduced, and several case studies of GIS applications in environmental and social domains will be analyzed. Offered concurrently with GIS 5100; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4048 and GEO 4152.

GIS 4071 Methods and Techniques in Environmental Resource Management and Planning
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Tools, methods, and techniques employed in the study of environmental impact and resource management. Research fundamentals studied and applied to environmental problems such as land use, environmental impact studies, Florida's development of regional impact, resource evaluation, and other topics. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 4071 and GEO 4373.

GIS 4102 GIS Programming
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4043 & GIS 4043L

Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 5103; graduate students will be assigned additional work. Permission required. Credit may not be received in both GIS 4102 and GIS 5103.

GIS 4930 Special Topics in Geographic Information Science
Department: Environmental Studies
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GIS 4035, GIS 4035L, GIS 4043

Focuses on various topics and cutting-edge techniques in Geographic Information Science (GIS), both in theory and in practice. Offered concurrently with GIS 5935; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed.

GIS 4944 GIS Internship
Department: Environmental Studies
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational or other environmental organizations. Offered concurrently with GIS 5945; graduate students will be assigned additional work. Permission is required.

GIS 5039 Applications in Remote Sensing
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4035 and GIS 4035L

The purpose is to make students familiar with digital image processing methods and techniques as applied in solving environmental and urban problems. The course is divided into four basic components: introduction of the generic process of remote sensing applications, introduction of some advanced digital image processing techniques and methods, case studies illustrating this process, and student projects using this process. Offered concurrently with GIS 4036; graduate students will be assigned additional work. Material and supply fee will be assessed. Permission is required. Credit cannot be received for both GIS 5039 and GEO 5139.

GIS 5100 Applications in Geographic Information Systems
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4043L

The application of GIS methods and techniques in solving practical problems. A generic process for applying GIS techniques in problem solving is introduced, and several case studies of GIS applications in environmental and social domains will be analyzed. Offered concurrently with GIS

4048; graduate students will be assigned additional work. Material and supply fee will be assessed. Credit cannot be received for both GIS 5100 and GEO 5157.

GIS 5103 GIS Programming
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4043L

Students utilize ArcObjects and VBA to create applications that perform fundamental spatial tasks such as geoprocessing, editing, database management, projecting data, and map creation. Offered concurrently with GIS 4102; graduate students will be assigned additional work. Permission is required. Credit may not be received in both GIS 5103 and GIS 4102.

GIS 5935 Special Topics in Geographic Science
Department: Environmental Studies
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: GIS 4043, GIS 4035, GIS 4035L

Focuses on various topics and cutting-edge techniques in Geographic Information Science (GIS), both in theory and in practice. Offered concurrently with GIS 4930; graduate students will be assigned additional work. Permission is required. Material and supply fee will be assessed.

GIS 5945 GIS Internship
Department: Environmental Studies
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Supervised application of Geographic Information Science (GIS) in business, government, non-profit, educational, or other environmental organizations. Offered concurrently with GIS 4944; graduate students will be assigned additional work. Permission is required.

GIS 6110 Advanced Topics in Geographic Information Science
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: GIS 4043 and GIS 4048

Relational Database Management Systems (RDBMS) and their function within Geographic Information Systems (GIS). Students will integrate RDBMS, Desktop GIS and the World Wide Web to produce an interactive spatial database served over the Internet. Permission is required. Material and supply fee will be assessed. Credit cannot be received for both GIS 6110 and GEO 6159.

GLY - GEOLOGY

GLY 2010 Physical Geology
Department: Environmental Studies
3.0 sh (may not be repeated for credit)

Material, structures, surface features of the earth and processes that have produced them. (General Studies Course: NS/LEC)

GLY 2010L Physical Geology Laboratory
Department: Environmental Studies
1.0 sh (may not be repeated for credit)

Lab correlating with GLY 2010. (General Studies Course: NS/LAB) Material and supply fee will be assessed.

GLY 3031C Environmental Geology
Department: Environmental Studies
4.0 sh (may not be repeated for credit)
Prerequisite: GEO 1200 or GLY 2010/L

Discussion oriented study of the application of geology to the spectrum of interactions between people and their physical environment. Earth materials and processes are presented in reference to hazards and concerns that are created naturally and/or by human activities. Role of humans as geologic agents, resource conservation, ecosystem management, and the problems that result from upsetting the established equilibria of geologic systems are illustrated using case studies with emphasis on scenarios in Florida. Possible field trips. Material and supply fee will be assessed. Credit may not be earned in both GLY 3880C and GLY 3031C.

GLY 4240 Geochemistry
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: (GLY 2010/L or GEO 1200/L) and CHM 2046/L

Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 5246; graduate students will be assigned additional work.

GLY 4244 Biogeochemistry
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: (GLY 2010/GLY 2010L or GEO 1200/GEO 1200L) and CHM 2046/CHM 2046L and (BSC 1005/BSC 1005L or BOT 2010/BOT 2010L or ZOO 1010/ZOO 1010L)

An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 5266; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5246 Geochemistry
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: (GLY 2010/GLY 2010L or GEO 1200/GEO 1200L) and CHM 2046/CHM 2046L

Fundamentals of the interactions between geological and chemical concepts in Earth systems. Will assess how chemical properties influence geological and environmental processes in a range of Earth environments. Topics will include the application of geochemical tools to interpret modern and ancient environments. Offered concurrently with GLY 4240; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

GLY 5266 Biogeochemistry
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: (GLY 2010/GLY 2010L or GEO 1200/GEO 1200L) and CHM 2046/CHM 2046L and (BSC 1005/BSC 1005L or BOT 2010/BOT 2010L or ZOO 1010/ZOO 1010L)

An introduction to the interactions between biological and inorganic components of Earth systems. Integrates fundamental concepts of Biology, Geology, and Chemistry. Topics will include the interactions of major nutrient cycles and connections between Earth components (atmosphere, lithosphere, and hydrosphere). Offered concurrently with GLY 4244; graduate students will be assigned additional work. Material and Supply Fee will be assessed.

H HFT - HOSPITALITY MANAGEMENT

HFT 2000 Introduction to Hospitality, Recreation, and Resort Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Introduction to the unique characteristics of service industries, and the concept of service quality. The many segments of the Hospitality, Recreation, and Resort fields are reviewed, along with related employment opportunities.

HFT 3221 Human Resources in Hospitality, Recreation, and Resorts
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Covers basics of human resource administration while focusing on the importance of human resource management within service industries; customer satisfaction is dependent upon employee satisfaction. Emphasis placed upon motivation, training, and strategies to combat the high turnover that characterizes hospitality fields.

HFT 3271 Spa Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Spa development is traced from Roman roots to the types of spas currently in existence: day spas, destination spas, and resort spas. Major treatments/services are reviewed: facial therapies, massage therapies, water therapies, face and body services, salon services, exercise, personal training, etc. In addition to operations, the functional areas of marketing, human resources, and financial management are discussed within the context of spas.

HFT 3277 Resort Operations and Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HFT 2000

Complete approach to the operation of resort properties from a department manager's perspective. Beginning with historical development, details are presented in planning, development, financial investment management, and marketing that deal with the unique nature of resort business. The future and the impact of the condominium concept, time-sharing, technological change, and the increased cost of energy and transportation, are also discussed.

HFT 3932 The Disney Semester: Experiential Learning in Hospitality, Recreation, and Resort Management
Department: Health, Leisure, & Exercise Science
6.0-12.0 sh (may be repeated for up to 12.0 sh of credit)

For students who have been accepted into the Walt Disney World College Program. Combines experiential learning through a minimum of 600 work hours (6 credit hours) with optional classroom education (maximum of 2 classes-3 credit hours/class) at Walt Disney World in Orlando, Florida. Permission is required.

HFT 3941 Field Study in Hospitality, Recreation and Resort Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students work in a hospitality, recreation or resort-related organization under the supervision of an agency representative and a faculty advisor. Skills, knowledge and values are developed on-the-job in entry level service industry positions; total of 300 work hours. Permission is required.

HFT 4274 Condominium and Vacation Interval Ownership
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A comprehensive study of timeshare and vacation ownership of condominium properties. Legal structures, projects

budgeting, marketing, sales and property management. Students are introduced to the fastest growing segment of the lodging industry. Differences between traditional and non-traditional lodging operations are examined.

HFT 4426 Financial Decision-Making in Hospitality, Recreation and Resorts
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3082, HFT 2000

Specialized accounting for hotel revenue and expenses; accounting for inventory, property, and equipment; hospitality payroll accounting; hotel departmental financial statements; the income statement, balance sheet, and statement of cash flows; the analysis of financial statements; interim and annual reports; budgeting expenses; forecasting sales; budgetary reporting analysis; and financial decision-making.

HFT 4753 Convention Facilities and Meetings Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HFT 2000

Convention facilities, convention and visitors bureaus, sponsors, host venues, stakeholders, tradeshow and meeting management are examined. Legal issues and trends are studied. The economic impact of meetings and convention business upon destinations is studied.

HFT 4940 Internship in Hospitality, Recreation and Resort Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HFT 3941

Capstone experience working in a hospitality, recreation or resort- related organization whereby students put theory into practice through active participation. Students are supervised by a management-level agency employee as well as by a faculty advisor. A total of 400 hours must be worked. Senior standing and permission is required.

HIS - GENERAL HISTORY AND HISTORIOGRAPHY

HIS 3002 Methods and Materials Colloquium
Department: History
3.0 sh (may not be repeated for credit)

Intensive experience in historical research and writing, methodology, and interpretations. Required for all history majors. Permission is required.

HIS 3065 Introduction to Public History
Department: History
3.0 sh (may not be repeated for credit)

Application of historical methods and concepts beyond scope of traditional academics.

HIS 3313 Issues in Gender and Diversity
Department: History
3.0 sh (may not be repeated for credit)

Provides an interdisciplinary introduction to the theoretical and social issues regarding diverse groups and gender stereotypes. Focuses on how gender and diversity fit into the actions and interactions of the private and public sectors, and presents information on how to effectively promote institutions, relationships, politics, and services that value diversity and eliminate gender stereotypes.

HIS 3432 History of Christianity to the Reformation
Department: History
3.0 sh (may not be repeated for credit)

Study of the history and development of Christianity from the time of the primitive church to the transformation of the 16th century, with an emphasis on the convergence of social and political factors during the period. Credit cannot be received for both HIS 3432 and HIS 3431.

HIS 3948 Service Learning Field Study II
Department: History
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

HIS 4XX3 The Vikings
Department: History
3.0 sh (may not be repeated for credit)

The period 800-1100 is often considered the Age of the Vikings. Utilizing historical and archeological evidence, examines how the Vikings came about, lived, and why this period ended. Analysis covers society in Scandanavia as well as outlying areas of Russia, England, and North America.

HIS 4066 Local History
Department: History
3.0 sh (may not be repeated for credit)

Introduction to theory, methodology, and application of local history. Required attendance on field trips to local historical archives, museums, and sites.

HIS 4072 Oral and Community History
Department: History
3.0 sh (may not be repeated for credit)

Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 5077; graduate students will be assigned additional work.

HIS 4074 Oral History
Department: History
3.0 sh (may not be repeated for credit)

Theory and methodology of the field of Oral History. Field experience included.

HIS 4080 Introduction to Archival Management
Department: History
3.0 sh (may not be repeated for credit)

Provides an introduction to the basic theories, methodologies, and archival practices of appraisal, acquisition, arrangement, description, preservation, and reference services for historical records and archives. Offered concurrently with HIS 5082; graduate students will be assigned additional work.

HIS 4284 Maritime History
Department: History
3.0 sh (may not be repeated for credit)

Survey of impact of oceans, rivers and other bodies of water upon the development of mankind. Focus on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

HIS 4316 Women in the Atlantic World
Department: History
3.0 sh (may not be repeated for credit)

Examines the Atlantic World through the experiences of African, European, and American Women. Explores how women fit within the continuously evolving multicultural setting of the sixteenth, seventeenth, and eighteenth centuries. Meets Multicultural Requirement.

HIS 4413 History of Maritime Law
Department: History
3.0 sh (may not be repeated for credit)

Development of admiralty law from early influences of Roman Law to the present day.

HIS 4955 Overseas and Field Study in History
Department: History
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

HIS 5059 Graduate Methods
Department: History
3.0 sh (may not be repeated for credit)

Research and preparation for writing theses and graduate papers.

HIS 5077 Oral and Community History
Department: History
3.0 sh (may not be repeated for credit)

Introduces students to the discipline of oral history and to demonstrate the techniques in which oral history is used to address the history, structure, function, and development of communities. Offered concurrently with HIS 4072; graduate students will be assigned additional work.

HIS 5082 Introduction to Archival Management
Department: History
3.0 sh (may not be repeated for credit)

Provides an introduction to the basic theories, methodologies, and archival practices of appraisal, acquisition, arrangement, description, preservation, and reference services for historical records and archives. Offered concurrently with HIS 4080; graduate students will be assigned additional work.

HIS 5087 Advanced Museology
Department: History
3.0 sh (may not be repeated for credit)
Prerequisite: ARH 4830C

Historical museum operation: philosophy, administration, ethics, and public responsibility.

HIS 5515 History of Architecture
Department: History
3.0 sh (may not be repeated for credit)

Examines the development of European architecture as a basis for understanding trends in American architecture from the colonial era to the twentieth century. Introduces the professional aspects of building and construction along with materials and techniques in building restoration and renovation.

HIS 6XX0 Maritime History
Department: History
3.0 sh (may not be repeated for credit)

Survey of impact of oceans, rivers, and other bodies of water upon the development of mankind. Focuses on settlement in maritime areas, maritime commerce, exploration, military and naval history, social intellectual and other activities and developments impacted or influenced by the sea.

HIS 6055 Public History Methodology
Department: History
3.0 sh (may not be repeated for credit)

Public History practice and methodology focusing on community history, museology, policy history, environmental history, and media history.

HIS 6056 Graduate History Practicum
Department: History
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Supervised Graduate History experience in an institution or agency such as local, state or national museum; archive; historic preservation site; oral history program; historic district; or agency involved with historic film documentary and tourism. 300 hours minimum. Permission is required. Graded on satisfactory/unsatisfactory basis only.

HIS 6083 Historic and Heritage Preservation Seminar
Department: History
3.0 sh (may not be repeated for credit)

Examines the evolution and theory of the historic preservation movement in the United States and the various methodologies associated with preservation and cultural resources management activities in the government and private sectors.

HIS 6097 Heritage Areas, Corridors, and Parkways
Department: History
3.0 sh (may not be repeated for credit)

Planning, implementation, and operation of historic preservation projects covering extensive areas and incorporating numerous historic and cultural resources. Comprehensive components of a general management plan and a general stewardship plan necessary for the establishment and operation of heritage areas, corridors, and parkways are studied. Explores the historical forces making such extensive historic preservation areas important to local, regional, and national history.

HIS 6904 Directed Readings
Department: History
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Permission is required.

HIS 6911 Master's Research
Department: History
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Permission is required.

HIS 6956 Advanced Overseas and Field Study in History
Department: History
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Supervised independent study in historical field research or study in the United States or overseas. Studies include, but are not restricted to, foreign research, supervised visitation and analytical observation of historical sites, participation in foreign university exchange programs. Permission is required.

HIS 6971 Thesis
Department: History
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

HLP - HEALTH, LEISURE, AND PHYSICAL EDUCATION

HLP 2081 Health, Nutrition and Physical Fitness
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Principles of exercise and nutrition and their roles in maintenance of good health. Students will be given the opportunity to develop their individual aerobic fitness program. An introductory level course.

HLP 3300 Organization and Administration of Professional Programs
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Analysis of leadership principles related to study of man and human performance related to health, leisure and sports activities.

HLP 3510 Measurement and Evaluation in Health, Leisure, and Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Application of measurement and evaluation principles to study of man and human performance related to health, leisure and sports activities. Instructional designs of physical fitness, sport skills and knowledge testing are examined.

HLP 4722 Health/Physical Education for Elementary School Teachers

Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Knowledge, attitudes and skills necessary for balanced programs of physical education and health education for grades K-8.

HLP 4922 Field Experience
Department: Health, Leisure, & Exercise Science
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Placement in an appropriate setting for the purpose of learning more about a specific field. Student will observe and participate in a wide range of activities as determined by instructor and agency supervisor. Graded on satisfactory/unsatisfactory basis only. Permission is required.

HLP 4940 Internship
Department: Health, Leisure, & Exercise Science
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HLP 5645 Programs Adapted to Atypical Individual
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Diversified programs suited to atypical child's interests, capacities and limitations.

HLP 6535 Research Procedures
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Research methodology, critical analyses and evaluation of current research, and design of a research proposal in the major field.

HLP 6595 Research Seminar
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Development of a research design suitable for a thesis or research project in health, leisure or sports science.

HLP 6922 Field Experience
Department: Health, Leisure, & Exercise Science
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Field experience in school or community agencies under faculty direction and on-the-job supervision. Graded on satisfactory/unsatisfactory basis only. Permission is required.

HLP 6940 Internship
Department: Health, Leisure, & Exercise Science
3.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

HLP 6971 Thesis
Department: Health, Leisure, & Exercise Science
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Graded on a satisfactory/unsatisfactory basis only. Permission is required.

HSA - HEALTH SERVICES ADMINISTRATION

HSA 4110 Health Care Policy and Administration
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 5115; graduate students will be assigned additional work.

HSA 4191 Health Information Systems
Department: Biology
3.0 sh (may not be repeated for credit)

Provides an overview of various health information such as patient-care, clinical decision-support, disease and demographic surveillance, imaging and simulation, and safety and environmental assessment. Fundamentals of proposing, reporting, and refereeing evaluation studies are covered. Legal and ethical issues related to training, security, confidentiality, and the use of informed consent are also addressed. Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching.

HSA 4192 Introduction to Medical Informatics
Department: Biology
3.0 sh (may not be repeated for credit)

Provides an overview of the multifaceted, interdisciplinary nature of medical informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Working knowledge of medical terminology and acceptance into the Medical Informatics Certificate Program also included. Offered concurrently with HSA 5197; graduate students will be assigned additional work. Credit may not be received in both HSA 4192 and HSA 4190.

HSA 4193 Electronic Clinical Record Systems
Department: Biology
3.0 sh (may not be repeated for credit)

Explores the use and evaluation of commercially available electronic medical record systems. Health care workflow issues will be addressed in the context of impacts of billing, collections, HIPAA, and scheduling in a health care practice. Offered concurrently with HSA 5198; graduate students will be assigned additional work.

HSA 4430 Health Economics
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 5436; graduate students will be assigned additional work.

HSA 4431 Business Analysis and Decision Making in Health Care
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003.

Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 5438; graduate students will be assigned additional work.

HSA 5115 Health Care Policy and Administration
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Management principles, processes and techniques as applied to hospitals and other health-related institutions. Offered concurrently with HSA 4110; graduate students will be assigned additional work.

HSA 5161 Marketing for Nursing Administrators
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Today, medicine is a mega business. This course explores best practices in market research, planning and positioning, advertising and branding, public relations and political advocacy in medicine to promote an understanding of the business of healthcare among nurse practitioners and other healthcare workers.

HSA 5197 Introduction to Medical Informatics
Department: Biology
3.0 sh (may not be repeated for credit)

Provides an overview of the multifaceted, interdisciplinary nature of medical informatics. Fundamentals of computer applications in medicine, health data classification and coding, and legal and ethical issues (including documentation, security, and regulatory requirements). Additional avenues for further credentialing will be covered. Working knowledge of medical terminology and acceptance into the Medical Informatics Certificate Program also included. Training in a health care-related field at the Associate's or Bachelor's level is required. Offered concurrently with HSA 4192; graduate students will be assigned additional work.

HSA 5198 Electronic Clinical Record Systems
Department: Biology
3.0 sh (may not be repeated for credit)

Explores the use and evaluation of a commercially available electronic medical records system. Health care workflow issues will be addressed in the context of impacts on billing, collections, HIPAA and scheduling in a health care practice. Working knowledge of personal computers, including knowledge of word-processing, spreadsheet packages, and Internet searching. Offered concurrently with HSA 4192; graduate students will be assigned additional work.

HSA 5436 Health Economics
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: GEB 5871

Provides instruction in economic theories, tools and concepts and their application to current health care issues. Offered concurrently with HSA 4430; graduate students will be assigned additional work.

HSA 5438 Business Analysis and Decision Making in Health Care
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023 or ECO 3003

Analysis of health policy, issues and cases using economic theories, tools, and concepts. Offered concurrently with HSA 4431; graduate students will be assigned additional work.

HSA 5934 Special Topics in Medical Informatics
Department: Biology
3.0 sh (may not be repeated for credit)

Advanced study of various topics and cutting-edge trends and issues of significance in medical informatics, both in theory and in practice. Focus may include reading and research of pertinent literature in journals, monographs, and books, hands-on training in current health information systems, or the development and evaluation of medical informatics systems to improve health care quality. Prerequisites will vary according to specific subject material to be covered or to meet credentialing/certification standards. Intro to Medical Informatics; Working knowledge of medical terminology/ Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching; Training in a health care-related field at the Associate's or Bachelor's level and permission is required.

HSA 6521 Critical Analysis of Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Analysis of research being conducted on causes of illness and death in the United States and other countries. Credit may not be received in both HSA 6521 and HSA 6106.

HSC - HEALTH SCIENCE

HSC 2100 Personal Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides information on personal health issues from which students may base current and future decisions regarding their health and wellness. To promote an environment where effective decision making skills can be acquired through structured group interaction.

HSC 2577 Principles of Nutrition
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Explores fundamental principles of nutrition emphasizing the promotion of human growth and health. Provides students with an understanding of nutrients and their roles in the body while examining current issues in food science.

HSC 3032 Foundations in Health Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Explores the philosophy and principles that provide the foundations of health education as an academic discipline and as a profession. Emphasis will focus on health education in our society, theoretical basis, settings, ethical issues, current issues, marketing, planning and future outlook in the field.

HSC 3034 Advances in Health Sciences Technology
Department: Biology
3.0 sh (may not be repeated for credit)

Introduces the student to current regional, state, national and international trends and issues in the health sciences. Lectures will cover recent topics in this area followed by class discussion of the topic. In addition, each student will be assigned a series of articles related to the topics that will be covered during the semester in lecture to stimulate and broaden class discussion.

HSC 3406C Advanced First Aid and Emergency Care
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Study and practice of standard first aid procedures which are essential for survival in emergency and disastrous situations. Cardiopulmonary resuscitation method will be included. Red Cross certification will be available to students who meet current standards. Material and supply fee will be assessed. Credit may not be earned in both HSC 3402C and HSC 3406C.

HSC 3450 Driver and Safety Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Critical analysis of traffic accidents, attitudes, factors, essential knowledge of automobile operations, and laws and regulations. Includes lab experiences to help students develop skills to teach driving. Valid driver's license and upper division standing required.

HSC 3451 Teaching of Drivers and Traffic Safety Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Organization, administration and techniques essential to teaching of driver education. Includes lab teaching experiences for giving instruction.

HSC 3460 Administration and Supervision of Driver and Safety Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

One of three courses required for DOE endorsement in Driver Education. Presents content material dealing with the supervision and administration of a driver education and safety programs relative to public schools. The student should be a certified teacher or enrolled in a teacher certification program. Completion of the endorsement in addition to teacher certification in another subject, will qualify one to teach driver education in the public schools of Florida.

HSC 3535 Introduction to Medical Terminology
Department: Biology
3.0 sh (may not be repeated for credit)

This distance learning course is designed to familiarize students with the basics of vocabulary used in the medical and health professions. Students will employ a systematic, word-building approach to master the complex terminology of the medical field. The self-paced approach requires excellent time management skills, computer skills, and commitment by the student. The coursework will be presented through the textbook, with practice exercises and tests for each course unit will be submitted electronically. Working knowledge of how to use personal computers, including knowledge of word processing and Internet searching is required prior to this course. Credit may not be received in both HSC 3535 and HSC 3534.

HSC 3555 Pathophysiology
Department: Biology
3.0 sh (may not be repeated for credit)

Disease as an abnormal biological process. Selected physiological processes and basic concepts of body response to pathology will be explored. Approach appropriate to students of nursing, allied health, medicine, and biology. Recommended prerequisite; one course in anatomy and physiology. Credit may not be received in both HSC 3555 and HSA 3550.

HSC 4050 Health Sciences Research Seminar
Department: Biology
3.0 sh (may not be repeated for credit)

Will center on discussions of contemporary research in the health sciences. The instructor will select key papers on a variety of recent advances in pharmaceuticals, surgical techniques and other areas of medical technology for discussion by students. At the beginning each student will be assigned a project which will include a written paper on a specific topic in health sciences research that they will present and defend in class.

HSC 4104 Health Aspects of Stress Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A study of physiological, psychological, and sociological aspects of stress as related to overall health. Anger, fear, and depression and their underlying mechanisms related to the stress response on health and disease will be examined. Emphasis is on identification of stressors, methods of prevention and coping strategies. Group activities and individual assignments provide opportunities for personal analysis.

HSC 4120 Consumer Health Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Enables students to make intelligent decisions about the health care marketplace. Basic information regarding health care products, services and consumer protection will be of central focus.

HSC 4133 Health Aspects of Human Sexuality
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A study of physical, mental, emotional, social, and psychological phases of human sexuality as they are affected by male and female relationships. Emphasize a holistic perspective on sexuality. Lectures by the instructor and experts from the community will provide an overview of the major issues in sexuality. Assigned readings will provide detailed information. Group activities and individual assignments will provide opportunities for personal analysis and growth with regard to a wide variety of topics.

HSC 4143 Drugs in Society
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides students with knowledge of the use and abuse of drugs in American contemporary society. Emphasis on the physiological, psychological, and sociological effects of drug use and abuse on personal and community health. Concepts of prevention, education and control will be covered. Material and Supply Fee will be assessed.

HSC 4211 Human Environmental Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

An online course with an overview of major environmental issues facing society at the dawn of the 21st century. Ecological concerns will be matched with specific elements related to personal and community health, emphasizing the interrelatedness of the two and conveying an awareness of how current environmental issues directly affect your own life.

HSC 4300 Changing Health Behaviors
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to acquaint students with a general theory of behavior, guide them through exercises for developing skills in self-analysis, and to provide information on how to achieve individual behavior change goals. Students will learn techniques for developing community-based health behavior change programs and employ coping skills for personal problem solving.

HSC 4500 Epidemiology
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A study of the factors determining and influencing the frequency, distribution, and causes of diseases and other events that impact the health and safety of the human population. Programs and strategies to prevent and control such events and diseases will be explored.

HSC 4511 Health Care Quality and Database Management
Department: Biology
3.0 sh (may not be repeated for credit)

Emphasizes how to develop, deploy, and evaluate new tools to analyze clinical data resources. Special attention is given to improving health care quality and decision-making to address the needs of a clinical practice or administration. Case studies involving the development and assessment of databases for disease management and drug utilization will be covered. Students will learn how to collect, summarize, statistically analyze, present, and interpret data. Students will be training in the fundamentals of database design and information retrieval as they develop a working tool to address health care quality improvement. Finally, legal and ethical issues involving training, documentation, security, confidentiality, the use of informed consent, and regulatory requirements are addressed. Offered concurrently with HSC 5512; graduate students will be assigned additional work.

HSC 4551 Communicable and Degenerative Diseases
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin, symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 5552; graduate students will be assigned additional work. Junior/Senior status required.

HSC 4572 Nutrition and Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HLP 2081 or HSC 2577 or permission from the instructor.

A study of the principles of nutrition science as applied to daily living. Topics include the six major nutrients; carbohydrates, lipids, proteins, vitamins, minerals, and water. Course also examines nutrition standards, Dietary Guidelines, digestive process, energy balance, nutrition controversies, and health educator's scope of practice related to nutrition education and counseling. Previous courses in nutrition, anatomy, physiology, physiology, or biology are highly recommended. Material and Supply Fee will be assessed.

HSC 4581 Health Promotion and Planning
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A comprehensive overview and analysis of theory, models, principles, and practices of health education and promotion planning and implementation. Topics include health promotion and a framework for planning, social assessment and participatory planning, epidemiological assessment, behavioral and environmental assessment, educational and ecological assessment, administration and policy assessment, evaluation and applications in community, occupational, school, and health care settings.

HSC 4633 Current Issues in School-Community Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A study of contemporary health issues affecting schools and communities. Emphasis will be placed on environment, medical care, lifestyle factors, and communicable diseases.

HSC 4652 Introduction to Clinical Ethics Grand Rounds
Department: Biology
3.0 sh (may not be repeated for credit)

An examination of actual clinical cases presented by hospital bioethicists.

HSC 4653 Dilemmas in Medical Practice
Department: Biology
3.0 sh (may not be repeated for credit)

An examination of various narratives from medical practices, focusing on key medical dilemmas.

HSC 4658 End-of-Life Ethics
Department: Biology
3.0 sh (may not be repeated for credit)

An examination of key issues and cases in end-of-life ethics. Credit may not be received in both HSC 4658 and HSC 4654.

HSC 4940 Internship
Department: Health, Leisure, & Exercise Science
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Placement in an appropriate agency or organization for the purpose of gaining some experience in the field. Faculty and agency personnel will supervise the student as the student participates in a wide range of services available in the setting. Goals and objectives will be planned by the student, instructor and agency supervisor. Reports will be required on a regular basis with a final report and oral interview. Permission is required.

HSC 5037 Historical Foundations of Health Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

The philosophical, ethical, and theoretical foundations of the professional practice of health education in school, community, worksite and hospital settings, as well as in health promotion consultant activities. Students will be expected to develop their own philosophical, ethical and theoretical approach(es) to the field after becoming familiar with the literature related to the discipline.

HSC 5135 Health Guidance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

The role of health educators and other health professionals in providing health guidance to individual clients. Functions of agencies and organizations providing health education and supportive health services. Research and theory related to health communication. Strategies and examples for students to develop skills in health communication.

HSC 5176 Nutrition and Lifestyle Counseling
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HSC 2577 or HLP 2081 or HSC 4572 or permission from the instructor

An integrated overview of nutrition science as it relates to health and disease prevention. Course includes the acquisition of lifestyle counseling and interpersonal skills that enhance the helping relationship as a health educator.

HSC 5185 Public Health Preparedness
Department: Biology
3.0 sh (may not be repeated for credit)

Introduces types of disasters, the national incident management system and its role in disaster planning, prevention, and mitigation. The structure and organization of medical disaster response, exercises, emergency communication, rapid health assessment, surveillance, and triage. Introduces the public health role in responding to chemical, biological, disease, radiological, nuclear, and explosive incidents. Also covers social/mental health, environmental services, ethical, and legal issues in disasters. Introduces evaluation methods for assessing the medical and public health responses.

HSC 5506 Advanced Epidemiology
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Examines the use of epidemiological procedures as they apply to community health planning. Emphasis is placed on the application of epidemiological concepts in determining the effectiveness of current and potential medical and public health interventions.

HSC 5512 Health Care Quality and Database Management
Department: Biology
3.0 sh (may not be repeated for credit)

Emphasizes how to develop, deploy, and evaluate new tools to analyze clinical data resources. Special attention is given to improving health care quality and decision-making to address the needs of a clinical practice or administration. Case studies involving the development and assessment of databases for disease management and drug utilization will be covered. Students will learn how to collect, summarize, statistically analyze, present, and interpret data. Students will be trained in the fundamentals of database design and information retrieval as they develop a working tool to address health care quality improvement. Finally, legal and confidentiality, the use of informed consent, and regulatory requirements will be addressed. Intro to Medical Informatics; Working knowledge of statistics; Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching; Training in a health care-related field at the Associate's or Bachelor's level is required. Material and Supply Fee will be assessed. Offered concurrently with HSC 4511 graduate students will be assigned additional work.

HSC 5552 Communicable and Degenerative Diseases
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to explore the basic concepts and principles of the disease process including history and classification. Emphasis will be upon etiology, origin symptoms, treatments, prevention, host, agent, and environmental factors affecting occurrence, prevention, and control. Offered concurrently with HSC 4551; graduate students are assigned additional work. Upper division or graduate status is required.

HSC 5602 Life, Illness and Death
Department: Biology
3.0 sh (may not be repeated for credit)

An examination of the worldviews of patients and health care providers which influence how both confront illness, suffering, and death. Permission is required.

HSC 5636 Current Issues in Medicine
Department: Biology
3.0 sh (may not be repeated for credit)

An examination of issues that arise in conceptualizing the aims and practices of medicine. Some focus on the health care practitioner's experience with difficult decisions regarding patient care and self care. Permission is required.

HSC 5655 Theoretical Foundations of Health Care Ethics
Department: Biology
3.0 sh (may not be repeated for credit)

Illuminating major ethical theories and their relation to health care ethics. The application and visibility of these theoretical models will be tested with respect to training and professional practice in health care. Permission is required.

HSC 5656 Clinical Ethics Grand Rounds
Department: Biology
3.0 sh (may not be repeated for credit)

Students will participate in grand rounds with specified health care professionals. In response to various cases presented at ethics grand rounds, students will participate in mock round table bioethics consultations and committees. A clinical ethics case study and permission is required.

HSC 5716 Planning, Implementing, and Evaluating of Health Programs
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: Graduate standing or permission from Health Education faculty for non-graduate students.

This course is designed to prepare the graduate student with the theoretical and practical perspectives of community health program planning, implementation, and evaluation. Emphasis will be placed on the major components of any planning model; needs assessment; priority setting; problem statement; program goals and objectives; program implementation; program evaluation; and budgeting. Additional topics include: ethical issues related to community health program planning and evaluation; influence of diversity on interventions and grant writing. Graduate standing or permission from Health Education faculty for non- graduate students is required.

HSC 6000 Professional Development in Biomedical/Pharmaceutical Sciences
Department: Biology
3.0 sh (may not be repeated for credit)

A capstone course for the specialization. Exposes students to the basic professional skills required of administrators in the biomedical and pharmaceutical industries.

HSC 6206 Community Health Delivery Systems
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

The ways health care is structured and delivered in the U. S. Familiarizes students with basic concepts concerning the distribution of health and illness in our nation, the organization of the health care system, and the relationship of one to the other. Definitions of health and illness as well as the historical context related to the development of medical services and public health. Issues in medical technology, health service financing, managed care, health disparities, and health policy are examined in the context of current political dynamics.

HSC 6528 Strategies for Prevention of Infectious Disease
Department: Biology
3.0 sh (may not be repeated for credit)

A comprehensive study of the tools for the control of infectious diseases and the application of these tools in public health programs to achieve an epidemiologic impact on disease reduction, elimination or eradication.

HSC 6666 Health Education and Interactive Technology
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Course offers health educators and health care administrations various perspectives relating to the development and implementation of effective interactive computing technology. Program development and interventions are aimed at improving various health-related outcomes such as promoting an individual's involvement in their personal health care, quality of life, adherence to health promoting strategies, and disease management. Above issues are also addressed within a community setting.

HSC 6667 Social Marketing in Health Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides students with an understanding of social marketing definitions, theory, and techniques. Social marketing systematically applies consumer marketing tools to achieve a consumer oriented approach to health promotion programming. Students will learn how to segment, reach, and influence target audiences while examining issues such as product planning, pricing, communication, distribution, and market research. As part of this course, students will apply marketing principles to design program messages and materials for behavior change initiatives.

HUM - HUMANITIES

HUM 6910 Master's Essay
Department: Dean - Arts & Sciences
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Completion of a comprehensive research essay which attempts to integrate the three fields of study. A committee of faculty, one from each discipline, evaluates on a satisfactory/unsatisfactory basis. Permission is required.

HUM 6971 Thesis
Department: Dean - Arts & Sciences
1.0-8.0 sh (may be repeated for up to 8.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

I IDH - INTERDISCIPLINARY HONORS

IDH 3945 Seminar: Washington Center
Department: Honors Program
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Seminar offered as part of intern placement through the Washington Center. Permission of the Director of the Career Services Center is required. Graded on satisfactory/unsatisfactory basis only.

IDH 3946 Internship: Washington Center
Department: Honors Program
1.0-9.0 sh (may be repeated for up to 9.0 sh of credit)

Internship offered as part of intern placement through the Washington Center. Permission of the Director of the Career Services Center is required. Graded on satisfactory/unsatisfactory basis only.

IDH 4030 Honors Seminar: Topic I
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4031 Honors Seminar: Topic II
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4032 Honors Seminar: Topic III
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4033 Honors Seminar: Topic IV
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4034 Honors Seminar: Topic V
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4035 Honors Seminar: Topic VI
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4036 Honors Seminar: Topic VII
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4037 Honors Seminar: Topic VIII
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors program only.

IDH 4038 Honors Seminar: Topic IX
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4039 Honors Seminar: Topics X
Department: Honors Program
3.0 sh (may be repeated for up to 12.0 sh of credit)

Specific Topics will vary; see the Director of the University Honors Program for current offerings. Enrollment in Honors Seminars is by permission of the Director of the Honors Program only.

IDH 4915 Honors Research Project
Department: Honors Program
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Directed research/creative activity under the supervision of a faculty sponsor. Project description must be submitted to and approved by the Director of the Honors Program prior to enrollment in the course. Open to Honors students only. Graded on satisfactory/unsatisfactory basis only.

IDH 4970 Honors Thesis
Department: Honors Program
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Capstone project for University Honors Program. Formal presentation of research/creative activity. Open to Honors students only. Graded on satisfactory/unsatisfactory basis only. Permission is required.

INP - INDUSTRIAL AND APPLIED PSYCHOLOGY

INP 3004 Industrial Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Application of psychological principles to problems of employee selection, placement, merit rating, job analysis, management training and other factors related to productivity. May not be taken for credit by students having credit for MAN 3360.

INP 3313 Organizational Behavior
Department: Psychology
3.0 sh (may not be repeated for credit)

Understanding human processes in formal organizations, utilizing individual and group exercises which simulate behavioral dynamics in organizations. Content areas include conflict resolution, communication, leadership, planning and control and other organizational processes. May not be taken for credit by students having credit in either MAN 3240 or SOP 3662. MAN 3025 or equivalent is suggested prior to taking this course, but not required.

INP 4224 Psychology of Workforce Diversity
Department: Psychology
3.0 sh (may not be repeated for credit)

Addresses the experience of work as it varies with the gender and ethnic background of workers in the United States. Other bases of diversity (e.g., disability) may also be addressed. Topics include work-related stereotypes and attitudes; discrimination and harassment; career choice, occupational segregation, and employment patterns; group differences related to fair testing and employment practices; the relationship of workforce diversity to processes such as supervision, leadership, mentoring, and power; law and public policy related to diversity and work. Lecture, discussion, and participative learning methods are used. Three hours of psychology or sociology are required prior to taking this course.

INP 5087 Ethics in I/O Psychology
Department: Psychology
1.0 sh (may not be repeated for credit)

A one hour seminar-style course that addresses the ethical concerns of I/O psychologists working in such areas as consulting, research, academia, and human resources. Permission is required.

INP 5131 Legal Issues in Industrial/Organizational Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Exposes students to laws, guidelines, and court cases (e.g., ADA, ADEA, FMLA, Sexual Harassment, Civil Rights Acts) important to human resource functions in organizations, with particular emphasis on employment testing for selection.

INP 6216 Personnel Selection and Appraisal
Department: Psychology
3.0 sh (may not be repeated for credit)

Current issues and techniques in selection, placement and appraisal, job analysis, criterion development; the validation process, assessment centers and EEO issues.

INP 6255 Methods in Personnel Psychology
Department: Psychology
2.0 sh (may not be repeated for credit)
Prerequisite: INP 6216

Experience in the construction and/or use of various instruments or procedures in personnel psychology. Examples may include personnel selection or performance appraisal devices; job analysis or job evaluations; calculation of reliability, validity or cut off scores or needs assessments for training. Permission is required.

INP 6325 Training and Development
Department: Psychology
3.0 sh (may not be repeated for credit)

Examines both the theory and practice of Training and Development in organizations. Provides students with a working knowledge of the industrial psychology model of training the adult learner (i.e., assessing training needs, developing training programs, delivering training programs, and evaluating the success of training interventions). Also explores theories of learning and motivation and post-training strategies for enhancing the success of a training program.

INP 6385 Group Dynamics in Organizations
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: MAN 3025 or PSY 2012 or SOP 3004

Emphasizes the application of general principles and theories derived from group processes research (particularly the social psychological research) to contemporary organizational problems. The classroom experience will be student-centered. Students will be expected to participate in discussion and classroom exercises, and prepare short written analyses of examples and cases. Topics covered may include: group development and socialization, group structure, conformity and influence, conflict, social identity, commitment, power, leadership, performance and decision-making.

INP 6397 Management and Organizational Behavior
Department: Psychology
3.0 sh (may not be repeated for credit)

Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Also emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.), and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. Not available to students having credit for MAN 6156.

INP 6944 Practicum in Industrial Psychology
Department: Psychology
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Primarily for education in traditional industrial areas. Involves placement in an industrial setting. 6-8 hours per week of field experience for every hour of credit. Must be an industrial-organizational program student and permission is required.

INR - INTERNATIONAL RELATIONS

INR 2002 International Politics
Department: Government
3.0 sh (may not be repeated for credit)

Sources and processes of conflict and cooperation among nation-states. (General Studies Course: SS/SOC) Meets Multicultural requirement.

INR 3006 Conflict, Violence and Peace
Department: Government
3.0 sh (may not be repeated for credit)

Conflict and violence which characterizes domestic politics of many nations. Focus on rebellions, revolutions, and coups. Gandhi's model of peaceful resolution of conflict. Meets Multicultural requirement.

INR 3073 Issues in International Politics
Department: Government
3.0 sh (may not be repeated for credit)

Current controversies in international affairs, e.g., terrorism, proliferation of weapons of mass destruction, collective security and peacekeeping, depletion of fisheries and other ocean resources, refugee flows and mass migrations, and globalization will be researched, discussed, and reported on.

INR 3102 American Foreign Policy
Department: Government
3.0 sh (may not be repeated for credit)

Factors shaping American Foreign Policy in contemporary contexts; emphasis will be placed on the administration of American foreign policy and diplomacy.

INR 3225 Vietnam and American Politics
Department: Government
3.0 sh (may not be repeated for credit)

The Vietnam War and its impact upon the political experience and social values of the United States.

INR 3262 Russian Foreign Policy
Department: Government
3.0 sh (may not be repeated for credit)

Analysis of Russian foreign policy objectives, strategies, and institutions, and the relationship between Russia's foreign and defense policies.

INR 3503 Model United Nations
Department: Government
3.0 sh (may not be repeated for credit)

Students will learn the theory behind the founding, the history, the organization, and the parliamentary procedures of the United Nations. During in-class simulations, they learn to represent the University of West Florida at local or regional Model United Nations conferences, where they would be required to be "in-character," representing the views of their assigned country rather than their own. Requires extensive preparation and research.

INR 4134 Homeland Security
Department: International Education and Programs
3.0 sh (may not be repeated for credit)

Analysis of problems and prospects of establishing aggressive intelligence and counterintelligence, as well as emergency management capabilities in a modern threat environment. Offered concurrently with INR 5138; graduate students will be assigned additional work.

INR 4334 National Security Policy
Department: Government
3.0 sh (may not be repeated for credit)

Definition of national values and threats to those values and their sources; design of appropriate measures to meet

threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 5330; graduate students will be assigned additional work.

INR 4364 Intelligence
Department: Government
3.0 sh (may not be repeated for credit)

Covers the origins, missions, functions, and responsibilities of the US security agencies as well as the relationship of the intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 5365; graduate students will be assigned additional work.

INR 4403 International Law
Department: Government
3.0 sh (may not be repeated for credit)

Nature, history and trends of legal controls on international behavior; conflict between theory and practice; cases will be used to illustrate various points of law.

INR 5138 Homeland Security
Department: Government
3.0 sh (may not be repeated for credit)

Analysis of problems and prospects of establishing aggressive intelligence and counterintelligence, as well as emergency management capabilities in a modern threat environment. Offered concurrently with INR 4134; graduate students will be assigned additional work.

INR 5330 National Security Policy
Department: Government
3.0 sh (may not be repeated for credit)

Definition of national values and threats to those values and their sources; design of appropriate measures to meet threats; methods for implementing these measures and the problems which inevitably arise over conflict between perceptions, values and actions. Applications of political violence and non-violence. Offered concurrently with INR 4334; graduate students will be assigned additional work.

INR 5365 Intelligence
Department: Government
3.0 sh (may not be repeated for credit)

Covers the origins, mission, functions, and responsibilities of the US security agencies as well as the relationship of intelligence community providers, especially the Director of National Intelligence with key policy makers and overseers such as the President, National Security Council, the Congress, judiciary, media, and public opinion. Offered concurrently with INR 4364; graduate students will be assigned additional work.

INR 6007 Seminar in International Relations
Department: Government
3.0 sh (may not be repeated for credit)

International Relations as a field study; theory, empirical data, historical development of the field.

ISC - INTERDISCIPLINARY SCIENCES

ISC 5517 Buddhist Psychology
Department: Psychology
2.0 sh (may not be repeated for credit)

Psychological overview of Buddhist theory and practice as they relate to everyday living, clinical practice and personal and transpersonal growth. Drawing from Theravada, Mahayana, Tantra and Zen, topics include four noble truths, suffering, concentration, jhanas, dependent origination, attachments, mindfulness, vipassana, nature of self, consciousness, compassion, insight, freedom, and enlightenment.

ISC 5517L Buddhist Psychology Lab
Department: Psychology
1.0 sh (may not be repeated for credit)
Prerequisite: ISC 5517
Co-requisite: ISC 5517

Students learn and practice different types of meditation to cultivate concentration and mindfulness during meditation and daily living. Construction of a personal mandala and regular class attendance and participation are required.

ISM - INFORMATION SYSTEMS MANAGEMENT

ISM 3011 e-Business Systems Fundamentals
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: CGS 2570

Use and application of information system technology in the business environment, with emphasis on the fundamental e-Business models, technology concepts and systems used to enable and conduct electronic business. Concepts include the components of an I.S., the systems development process, the functions of the various types of communication networks, hardware, and software, including practical, hands-on projects designed to enhance e-Business analytical skills. Completion of 45 semester hours of college course work is required prior to this course.

ISM 3235 Business Development Environments
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: CGS 2570

Explores the concepts involved in the development of event-driven business applications. Concepts covered include GUI application design and development, object-oriented systems linking business objects, and client-server environments. Uses Visual Basic to demonstrate the concepts. Prior programming experience preferred but not required.

ISM 4113 Business Systems Design
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 3011 and ISM 3235

A project-based introduction to the principles of business information systems design, including the basic methods and procedures involved in planning and controlling the development and modification of a computer- based information system in an organization. Students use modern microcomputer-based, computer-aided systems design tools and techniques to complete design projects. Focuses on the importance of end-user specifications for information systems projects.

ISM 4114 Business Information Systems Development
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 4113

An advanced course in the application of emerging information technologies to the development of business information systems. Students integrate knowledge from previous courses to plan, analyze, design, and implement a comprehensive, real-world, project. Emphasis is on the integration of business requirements with emerging information technologies to develop the business information systems framework.

ISM 4300 Systems Planning, Design and Control
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Techniques for the planning, design and control of information systems. Stresses link between strategic planning of the organization and strategic planning of the management information system.

ISM 4400 Decision Support and Expert Systems
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 3011

Current tools and techniques available to support managerial decision-making. Analysis and practice in the building and use of decision support systems and expert/knowledge-based systems.

ISM 4481 Knowledge Management for e-Business
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 3011 and ISM 3235

Explores the complexities of knowledge management in the e-business era. Uses software tools to analyze data and create business intelligence.

ISM 4483 e-Business Infrastructure Management
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 3011 and either ISM 3235 or COP 2120.

Explores the technology and management concepts, issues and decisions related to the infrastructure required to support end-to-end, partner-to-partner electronic business processes.

ISM 4943 Internship in Management Information Systems
Department: Management/MIS
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)
Prerequisite: Senior status, 2.5 overall GPA, 3.0 GPA in MIS

On as "as available" basis, MIS majors may request an internship by submitting written proposals to their advisor. Proposals must be approved by the advisor, chairperson, and sponsor. Summer semester internships are offered only during the A term. Senior status, 2.5 GPA overall, and a 3.0 GPA in MIS is required. All internships include report on internship experience, including weekly journals, written reports, and an oral presentation to department chairperson. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required.

ISM 6026 Management of Information Systems and Technology
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ISM 3011 or GEB 5870

Provides the M.B.A. student with a contemporary managerial perspective on the effective use of information systems in global organizations through case analyses and class discussions. Topics include the business value of information systems, integration of information systems with enterprise strategy, the use of information systems to achieve organizational redesign for strategic advantage, and applying the processes of leadership and management to information systems planning and implementation. Contains a portfolio project.

J JOU - JOURNALISM

JOU 2100 Newspaper Reporting
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Principles and procedures in gathering, reporting and writing news and feature articles. (Gordon Rule Course: Wrtg). Credit may not be received in both JOU 2100 and JOU 3100.

JOU 3300 Feature Writing
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Researching and writing feature articles for newspapers, trade journals and general circulation magazines. Includes manuscript preparation and querying of editors for publication. Credit may not be earned in both JOU 3330 and JOU 3300.

JOU 3314 Environmental Reporting
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Focuses on techniques required to research, report and write environmental new stories for newspapers. Students cover an environmental beat during the semester to gain experience with writing about a wide range of issues relating to environmental journalism. The course also examines issues such as reporting ethics, the role of environmental reporters in the community, the history of environmental journalism and utilization of both government databases and the Internet to gain regulatory information for environmental stories. The course explores environmental stories involving public health, public land management, restoration of endangered species, and eco-activism. Permission is required.

JOU 3940 Practicum: Voyager
Department: Communication Arts
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: JOU 2100

Experience in preparing news, opinion and feature material for publication in the student newspaper. Permission is required.

JOU 4101 Advanced Newspaper Reporting
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Advanced principles and procedures in gathering, reporting and writing news, features and opinion articles.

JOU 4181 Public Affairs Reporting
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Principles and procedures involved in reporting and writing news stories about public affairs/government for newspapers, broadcasters and online news services. Permission is required.

JOU 4201 Newspaper Editing
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: JOU 2100

The editing of local and wire copy for newspapers and other publications. Strong emphasis on principles of grammar, punctuation, diction, syntax, and logic. Headline writing, cutline writing, news judgment and photo display. Use of standard reference books.

JOU 4213 Newspaper Design
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Principles and practices in newspaper layout and design. Credit may not be received in both JOU 4213 and JOU 4211.

JOU 4302 Editorial Writing
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: JOU 2100

Principles of and practice in the art of writing persuasively. Focuses on newspaper editorials and commentary.

JOU 4306 Writing Critical Reviews
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Devoted to writing reviews of books, film, art, and music. Offered concurrently with JOU 5317; graduate students will be assigned additional work. (Gordon Rule Course: Wrtg)

JOU 4308 Magazine Writing
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Principles and practices in the art of writing for magazines. Focuses on in-depth reporting and refined focus for the magazine market. (Gordon Rule Course: Wrtg)

JOU 6XX0 Emerging Topics in Media Issues
Department: Communication Arts
1.5 sh (may not be repeated for credit)

Explores the techniques used by traditional media to maintain cordial relations with their readers both before and during the recent collapse of advertising revenue brought on by the advent of the new media. Many are widely applicable to other communication enterprises.

JOU 6XX1 Interviewing and Information Gathering
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides advanced grounding in how historians, journalists, and qualitative social scientists employ best practices in interviewing and other information seeking to accomplish their objectives.

JPN - JAPANESE

JPN 1120C Japanese I
Department: International Education and Programs
4.0 sh (may not be repeated for credit)

For students with no knowledge of Japanese. Lays a foundation for speaking, writing and reading the language.

JPN 1121C Japanese II
Department: International Education and Programs
4.0 sh (may not be repeated for credit)
Prerequisite: JPN 1120C

Continuation of Japanese I.

JPN 2200 Japanese III
Department: International Education and Programs
3.0 sh (may not be repeated for credit)
Prerequisite: JPN 1121C

Japanese III will strengthen speaking and hearing communication skills. Practice on speed, rhythm and pronunciation will be stressed. In addition, this course will focus on basic writing and reading comprehension skills with new Kanji and vocabulary.

JPN 2201 Japanese IV
Department: International Education and Programs
3.0 sh (may not be repeated for credit)
Prerequisite: JPN 1120C, JPN 1121C, JPN 2200

Japanese IV will continue building speaking and hearing communication skills developed in Japanese III. Intensive practice on speed, rhythm, and pronunciation will be stressed. In addition, this course will focus on strengthening writing and reading comprehension skills and introduce new Kanji and vocabulary.

JPN 3270 Supervised Language Experience Abroad
Department: International Education and Programs
3.0 sh (may not be repeated for credit)

Japanese language study in Japan. Two semesters of Japanese or a proficiency in conversational Japanese and permission is required. Meets Multicultural requirement.

LAE - LANGUAGE ARTS AND ENGLISH EDUCATION

LAE 3314 Literacy for the Emergent Learner
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Development of pre-service teacher skills and understandings needed for conducting a language arts program at the elementary school level.

LAE 3324 Teaching Language Arts in the Middle and Secondary Schools
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Theory/methodology for teaching language arts/literature at the middle and secondary school level; emphasis on teaching strategies for integrating classroom listening, speaking, reading, and writing activities; includes observation/participation in middle and secondary school settings.

LAE 4335 Special Methods in English
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

Practical application of theory and methodology to teaching English in secondary schools. Involves a six-week classroom practicum, a twelve-week Writing Lab practicum, unit planning, curriculum building, a teaching presentation, a teaching portfolio, and a research project.

LAE 4464 Young Adult Literature
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Modern works of literature that have demonstrated appeal for adolescents and works written specifically for the age range of 12 to 20 years. The works will be considered in the context of young adult needs: psychological, social and ethical. Designed primarily for education majors.

LAE 5345 Teaching Pupils to be Effective Writers
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to assist K-12 teachers to further develop skills and understandings requisite to implementing a successful writing program in the classroom. Emphasis is placed upon provision of a balance between expressive and practical composition opportunities for pupils and upon instructional procedures to assist pupils to develop the strategies and skills that support effective written communication.

LAE 5468 Literature for Children and Young Adults
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Comprehensive survey of literature for children and young adults. Critical analysis and review of the writings of authors and illustrators and how to effectively use their materials in instructional settings. Evaluation and selection of materials based upon the biological, socio-cultural, psychological and developmental characteristics of children and young adults; guidance in their use, emphasizing attitudes, interests, problems, and opportunities of children and young adults in contemporary society. Evaluation, selection, and use of both print and nonprint materials for children; impact of mass media on children and young adults in our society; analysis of attitudes, issues and values reflected in these media and their use in educational settings.

LAE 6325 Language Arts Instruction in Middle and Secondary School Settings
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: LAE 3324
Co-requisite: EDM 6944 or ESE 6944

Significant trends in middle and secondary language arts instruction, including grammar, process writing, writing across the curriculum, response to young adult literature and the diagnosis of reading problems.

LAH - LATIN AMERICAN HISTORY

LAH 3100 Colonial and Revolutionary Latin America
Department: History
3.0 sh (may not be repeated for credit)

Pre-Columbian cultures and interactions of Spanish and English colonial administrative and economic systems; economic, social, intellectual and political efforts of revolution against Spain. Meets Multicultural requirement.

LAH 3200 Latin America since Independence
Department: History
3.0 sh (may not be repeated for credit)

Political, economic and social problems of early nationhood; analysis of revolution, development models, role of the military and international relations. Meets Multicultural requirement.

LAH 4430 Mexico
Department: History
3.0 sh (may not be repeated for credit)

Cultural, economic and political forces that interacted to create Mexican nation. Meets Multicultural requirement.

LAH 4470 Cuba and Central America
Department: History
3.0 sh (may not be repeated for credit)

The social, economic and political histories of the Caribbean Basin (i.e., the Caribbean, with special emphasis on Cuba, and Central America). Meets Multicultural requirement.

LEI - LEISURE

LEI 2264 Backpacking and Hiking
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Survey of the principles governing backcountry and wilderness trips from a low impact perspective. Emphasis on backcountry trip planning and leadership, foundations of risk management, wilderness first aid, Leave No Trace principles, maps and trails, and land issues. Students must commit to one overnight weekend trip.

LEI 3140 Leisure and Society
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Historical and philosophical foundations of leisure. Examinations of current trends, problems and issues affecting leisure in the United States.

LEI 3301 Travel and Tourism
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Cross-disciplinary examination of the many facets of tourism. The social science perspective provides students with the kind of practical knowledge that can effectively be applied to the hospitality industry. Also provides advanced information that can serve as a bridge to further analysis or study. Examples of local issues and trends important in the tourism industry.

LEI 4300 Strategic Leadership in Hospitality, Recreation, and Resorts
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HFT 2000, MAN 3025

Analysis of hospitality, recreation, and resort organizations dealing with strategic planning, leadership, management, budgeting, records and reports, risk management, staff organization, and coordination of resources.

LEI 4321 Sport, Adventure and Ecotourism
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Discussion of the concepts, theories and issues relevant to the development of tourism, with an emphasis on sport, adventure and nature based tourism. Examination of the challenges and practices associated with the planning and development of tourism, marketing strategies, funding, government involvement, financing of the infrastructure, event organization, contracts, public relation strategies and career opportunities. Introduction and overview of tourism "niches" including festivals, special events, urban, rural, cultural, peace and educational tourism. Upper level status is required.

LEI 4332 Community Tourism Development
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: LEI 3301

Examines the relationship between tourism development and host communities. Students study the positive and negative economic, social, environmental and political implications of tourism development. The role of natural and man-made attractions, theme parks, convention and sports facilities as catalysts to tourism development. Issues of community participation in tourism planning and managing the tourism/ community relationships. Upper level status is required.

LEI 4350 Outdoor Leisure
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Survey of issues affecting outdoor leisure in America from a conservation/environmental perspective; and the effective communication of outdoor leisure values. Analysis of leadership skills associated with outdoor leisure activities. Material and supply fee will be assessed.

LEI 4400 Programming and Special Events
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: LEI 3140

Principles of leisure program development and study of program areas, activities, and special events. Analysis of the methods and techniques of program/event design, organization, implementation, and evaluation.

LEI 4560 Hospitality, Recreation, Tourism and Resort Marketing
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: HFT 2000

An analysis of the marketing process as it relates to park, recreation, tourism and leisure services. Target and service marketing; strategic marketing planning; marketing research; current issues; future trends and marketing opportunities. Upper level status is required.

LEI 4602 Hospitality, Recreation and Resort, Planning and Design
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Examination of the fundamental concepts, the specific principles, and the process of planning and designing hospitality, recreation and resort facilities, including visitor attractions. Students work individually and in teams to design facilities that fulfill travel/recreation expectations, operate graciously in the community, and function efficiently to realize profit. Upper level status is required.

LIN - LINGUISTICS

LIN 2670 Practical Grammar and Usage
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Review of the basic principles of writing: grammar, usage, diction, syntax and mechanics, emphasizing usage that is "incorrect," "wrong," "substandard," and "inappropriate."

LIN 3742 Modern Grammar and Usage
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Grammar of modern English, including traditional; concentration on structural, generative and transformational approaches. Intended for English majors, required of those preparing for careers in secondary education.

LIT - LITERATURE

LIT 1122 Great Books I
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Reading/discussion of major literary texts that have shaped Western culture and civilization. (Gordon Rule Course: WRTG and General Studies Course: HUM/LIT). Credit may not be received in both LIT 1110 and LIT 1122.

LIT 2030 Introduction to Poetry
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Elements of poetry, terminology of poetics and the poetic process. Writing of short analytical papers. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/LIT)

LIT 2100 Introduction to Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Literature from various nations and historical periods chosen to reflect the evolution of the major genres of the Western

literary tradition. Guides the student in defining the features which distinguish drama, fiction and poetry. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/LIT) Meets Multicultural requirement. Credit cannot be received in both LIT 2100 and LIT 2112.

LIT 2110 Western Literature I
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)
Co-requisite: EUH 1000

Reading/discussion of major literary texts from the Classical period to the Renaissance that have shaped Western culture and civilization. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/LIT). Credit cannot be received in both LIT 2110 and LIT 2113.

LIT 2120 Western Literature II
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Reading/discussion of major literary tests from the Renaissance to the present that have shaped Western culture and civilization. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/LIT). Credit cannot be received in both LIT 2120 and LIT 2114.

LIT 2931 Encountering Literature
Department: English & Foreign Language
2.0 sh (may not be repeated for credit)
Prerequisite: ENC 1101, ENC 1102

An introduction to literary studies that familiarizes students with a wide variety of literary texts and interpretations. The texts and topics will change with each instructor and for each semester. (General Studies Course: HUM/LIT)

LIT 3033 Modern Poetry
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Selected poetry of 20th century.

LIT 3084 Modern Prose Fiction
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Selected prose fiction of 20th century and related criticism.

LIT 3191 World Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Covers a range of topics focusing on non-U.S. literatures. Texts vary each semester according to interest and expertise of the instructor.

LIT 3233 Postcolonial Literature
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Examines world literature produced in the context of colonialism and subsequent movements for independence. Links the study of literature to the political, psychological and cultural effects of imperialism and globalization. Specific topics vary according to faculty expertise and research interests.

LIT 3321 Multicultural Myth
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Myths outside the Greek and Roman traditions. Includes, but is not limited to, myths informing the following cultures: Indian, Native American, African Asian, Celtic, and Hispanic. Focus is on the similarities and differences among world myths and how those myths inform cultural traditions and values.

LIT 3463 Literature and Visual Studies
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Examines literature in the context of film, the visual arts, and emerging new media. Emphasis on twentieth century and contemporary literary and aesthetic movements.

LIT 3492 Rhetoric, Ideology, and Power
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Students are exposed to various theoretical treatments of ideology and power and analyze the sub-textual, persuasive elements of a variety of texts. Topics change, but may include the clash between the discourses of nationalism and internationalism, post-industrial and newly industrialized cultures, or corporatized and sustained economies, as they circulate in popular, political, and administrative, or cultural texts that are both sanctioned and unsanctioned by the dominant power structures. (Gordon Rule: Wrtg)

LIT 4013 The Novel
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

The novel as a genre; exploration of the techniques of narrative, characterization, point of view, voice, reflexivity and others. May include texts from diverse national origins.

LIT 4325 Mythological Foundations
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Traces the Joseph Campbell "Monomyth" pattern from ancient narrative sources through classic myths, to medieval epics, and into modernist and post-modernist novels.

LIT 4385 Feminist Literary Theory: Applications
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Focusing on women writers, introduces strategies for interpreting women's roles in relation to literary texts, with emphasis on the ways in which women are depicted in relationship to men, other women, the workplace, and the home.

LIT 5018 Topics in Fiction
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Special topics in fiction. Topics change each term. See department or instructor for specific topic.

LIT 5037 Topics in Poetry
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Special topics in poetry.

LIT 5047 Topics in Drama
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Special topics in drama. Topics change each term. See department or instructor for specific topic.

LIT 5105 Topics in World Literature
Department: English & Foreign Language
3.0 sh (may be repeated for up to 12.0 sh of credit)

Generic or thematic topics involving more than one national literature.

MAA - MATHEMATICS: ANALYSIS

MAA 4211 Advanced Calculus I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313 and MHF 3202

The theory of functions of a real variable. Inequalities, sequences, rigorous discussion of limits, continuity, differentiability and Riemann integrals. Basic concepts of point set topology on the real line. (Gordon Rule Course: Theoretical Math)

MAA 4212 Advanced Topics in Multi-Variable Calculus
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Differential and integral calculus of functions of several variables. Basic concepts of point set topology on the plane, partial derivatives, chain rule, multiple integrals and their transformations, infinite series, uniform convergence of sequences and series of functions. (Gordon Rule Course: Theoretical Math).

MAA 4402 Analytic Functions
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Offered concurrently with MAA 5404; graduate students will be assigned additional work.

MAA 5404 Analytic Functions
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313
Co-requisite: Senior standing is required.

Parts of the theory of complex variables that are prominent in applications of the subject. Topics covered: the algebra and geometry of complex numbers, Cartesian and polar representation, differentiability of complex functions, analytic functions, the elementary functions, contour integrals and the Cauchy-Goursat theorem, the Cauchy integral formulae, power series expansions, residue theorem. Senior standing is required. Offered concurrently with MAA 4402; graduate students will be assigned additional work.

MAC - MATHEMATICS: CALCULUS AND PRECALCULUS

MAC 1105 College Algebra
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAT 1033

Provides the concepts and techniques of algebra that are needed to understand subjects such as statistics and economics which contain a considerable amount of quantitative reasoning. Is additionally a preparatory course for the study of calculus. Major topics include: the concept of functions, graphs of functions and relations, operations on functions, rational functions, exponentials and logarithms, systems of equations and inequalities, applications. Prerequisite course or appropriate score on placement test is required. Students may earn 3 semester hours credit toward

Gordon Rule for MAC 1105. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT/ALG)

MAC 1114 Trigonometry
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

Trigonometric functions, their properties and graphs, inverse trigonometric functions, their properties and graphs, trigonometric identities, conditional trigonometric equations; solutions of triangles, vector algebra, parametric equations, polar coordinates, applications. College Algebra or a strong high school algebra background is required. (Gordon Rule Course: Theoretical Math and General Studies Course: MAT/MAT).

MAC 1140 Precalculus Algebra
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

Stresses the aspects of algebra that are important for the calculus sequence. Lays emphasis on graphs in the study of functions and algebraic relations. Covers polynomials; rational functions; logarithmic, exponential, and piecewise defined functions; inequalities; conic sections; matrices; sequences, and series; mathematical induction. Prerequisite course or appropriate score on placement test is required. Students may earn 3 semester hours credit toward Gordon Rule for MAC 1140.(Gordon Rule Course: Theoretical Math and General Studies Course: MAT/ALG)

MAC 2233 Calculus with Business Applications
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

Sets and functions; derivatives; areas under a curve; integration; exponentials and logarithms; applications of derivatives and integrals. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT)

MAC 2311 Analytic Geometry and Calculus I
Department: Mathematics
4.0 sh (may not be repeated for credit)
Prerequisite: MAC 1114 and MAC 1140

Differential and Integral Calculus of Algebraic, Trigonometric, and Transcendental functions of single variables. Related applications. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MAC 2312 Analytic Geometry and Calculus II
Department: Mathematics
4.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Application of the Definite Integral. Hyperbolic and Inverse Trigonometric Functions. Methods of Integration. Sequences and Infinite Series. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT)

MAC 2313 Analytic Geometry and Calculus III
Department: Mathematics
4.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Analytic Geometry and Calculus. Vectors and Vector-Valued Functions. Partial Differentiation. Multiple Integration. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT)

MAC 3949 Cooperative Education
Department: Mathematics
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAC 4949 Cooperative Education
Department: Mathematics
0.0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Master level student and permission of director of Cooperative Education is required.

MAD - MATHEMATICS: DISCRETE

MAD 3107 Discrete Mathematics and Applications
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: COT 3100 or MHF 3202

Introductory combinatorics, counting, graphs and trees, and their applications; relations and partial orders; some algorithms associated with applications of graphs, trees, and relations. (General Studies Course: MAT) and (Gordon Rule Course: Theoretical Math).

MAD 4301 Graphs and Their Application
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite Graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 5305; graduate students will be assigned additional work.

MAD 4401 Numerical Analysis
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAS 3105

Numerical solutions of equations in one variable, interpolation and polynomial approximation, numerical differentiation and integration, numerical solutions of initial value and boundary value problems for O.D.E., direct methods for solving linear systems, iterative techniques in matrix algebra. Some problems solved with aid of computer. A computer language is required prior to this course. (Gordon Rule Course: Theoretical Math).

MAD 4605 Coding Theory
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAS 3105

Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 5608; graduate students will be assigned additional work.

MAD 5305 Graphs and Their Applications
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Directed and undirected graphs, basic concepts and terminology, paths and cycles, Euler and Hamiltonian cycles, bipartite graphs, matchings in bipartite graphs, connectivity, graph colorings, planar graphs, graph models, and applications. Offered concurrently with MAD 4310; graduate students will be assigned additional work.

MAD 5608 Coding Theory
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAS 3105

Explores coding theory from a mathematical viewpoint. Focuses mainly on binary codes and codes over fields of characteristic 2. Introduces error-detecting and error-correcting codes and the construction, encoding and decoding of certain families of codes important in engineering and computer science. Offered concurrently with MAD 4605; graduate students will be assigned additional work.

MAD 6405 Numerical Analysis I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAD 4401 and MAS 5107

Theoretical treatment of numerical methods of linear algebra supplemented with use of computers; polynomial approximations, uniform approximations, least square approximations, error analysis for numerical solutions of linear equations, algebraic eigenvalue problems.

MAE - MATHEMATICS: EDUCATION

MAE 4310 Teaching Mathematics in the Elementary School
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Theory and methods for teaching mathematics in the elementary school; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics. Material and supply fee will be assessed.

MAE 4320 Teaching Mathematics in the Middle and Secondary Schools
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Theory and methods of teaching mathematics in the middle and secondary schools; contemporary approaches to teaching concepts, number systems, numeration systems, computational algorithms, problem solving, informal geometry, measurement and other topics. Includes observation/ participation in appropriate school settings. Material and Supply fee will be assessed.

MAE 4657 Mathematics for the 21st Century
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 5658; graduate students will be assigned additional work.

MAE 5337 Teaching Algebra Concepts in Secondary Education
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MGF 1106

Designed for Math teachers of Secondary Education. Provides the concepts and techniques of algebra that are needed to understand subjects such as statistics and economics. It also provides the basic functions of Algebra to model many real life situations. Admission to Teacher Education and permission is required.

MAE 5338 Teaching Geometry Concepts in Secondary Education
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MGF 1106

For graduate students in mathematics education. Topics include Euclidean and analytic geometry, inductive and deductive reasoning, two- and three-dimensional figures. Admission to Teacher Education and permission is required.

MAE 5385 Teaching Trigonometry Concepts in Secondary Education
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAE 5337 and MAE 5338

Covers trigonometric functions and their properties. Also includes inverse trigonometric functions; trigonometric identities; trigonometric equations; solutions of triangles; polar coordinates and applications. Admission to Teacher Education and permission is required.

MAE 5389 Teaching Discrete Math Concepts in Secondary Education
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MGF 1106

For graduate students in mathematics education. Topics include arithmetic and geometric sequences, permutations and combinations, matrix arithmetic, and applications of matrices to linear equations. Admission to Teacher Education and permission is required.

MAE 5658 Mathematics for the 21st Century
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Utilizes appropriate technologies for teaching mathematics at the middle and secondary school levels. Offered concurrently with MAE 4657; graduate students will be assigned additional work.

MAE 6115C Teaching Mathematics in Elementary Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Analysis and evaluation of new programs and practices in teaching elementary school mathematics, including study of effects of these programs on teaching methods and materials; lab experiences including design, field testing and evaluation of activity-oriented lessons in mathematics and development of competence in the use of teaching aids in mathematics instruction; contemporary approaches to teaching elementary mathematics concepts and problem solving; development of competence in the use of alternative assessment techniques. Material and Supply fee will be assessed.

MAE 6128 Proportional Reasoning
Department: Mathematics
3.0 sh (may not be repeated for credit)

Proportional reasoning applies to many contexts and areas of mathematics and is central to teaching and learning in the middle grades. Explores aspects of proportional reasoning including ratio, proportion, similarity, slope, unit analysis, and measurement conversions. Activities include determining when proportional reasoning does and does not apply, using formal and informal approaches to solve problems involving proportional reasoning, and recognizing students' understanding of and common misconceptions of proportionality.

MAE 6334 Problem Solving in Geometry
Department: Mathematics
3.0 sh (may not be repeated for credit)

Teachers investigate through problem-solving and mathematical inquiry, characteristics and properties of 2- and 3-dimensional shapes and the relationships among them, including congruence and similarity.

MAE 6345 Whole Number Operations and Invented Algorithms
Department: Mathematics
3.0 sh (may not be repeated for credit)

Teachers examine traditional, non-traditional, and student-invented algorithms, explain why the procedures work mathematically, and consider how students benefit from using alternate approaches.

MAE 6346 Fractions, Decimals and Percents
Department: Mathematics
3.0 sh (may not be repeated for credit)

Teachers work with fundamental concepts in fractions, decimals, and percents and their interrelationships. Another focus is student's misconceptions and difficulties.

MAE 6361 Teaching Mathematics in Middle Level and Secondary Education
Department: Teacher Education

3.0 sh (may not be repeated for credit)
Co-requisite: EDM 6944 or ESE 6944

Assists middle and secondary level teachers to develop theoretical understanding and skills necessary to teach in a manner consistent with current reform efforts in mathematics education. Focuses on components of understanding mathematics teaching and learning: 1) how students learn mathematics; 2) the role of the teacher in delivering effective mathematics lessons. Credit may not be earned in both MAE 6360 and MAE 6361. Material and Supply fee will be assessed.

MAE 6384 Mathematical Methods in Secondary Education
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAE 5389, MAE 5658, MAE 6387, and MAE 6388 Education), MAE 5658.

Explores the mathematics, teaching, and pedagogy for secondary schools. Topics include designing and teaching effective lessons, assessment, evaluation and grading, mathematical teaching methodologies, use of technology in the classroom, basic principles in Algebra, Geometry, Trigonometry, Calculus, Discrete Mathematics, and Statistics, connections among these areas of mathematics, problem solving, and formulation of elementary mathematical models. Admission to Teacher Education and permission is required.

MAE 6386 Teaching Calculus Concepts in Secondary Education I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAE 5337 and MAE 5385

Designed for math teachers. The overall objective is to increase knowledge and competence for math teachers in both content and pedagogy related to the teaching and learning of Calculus. The primary topics to be covered are: functions, operations on functions, limits, continuity, Intermediate Value Theorem, average and instantaneous rate of change, derivative, tangent or slope of curve, increasing/decreasing function, concavity, derivative rules, maximum/minimum of function, inflection point, family of curves, Extreme Value Theorem, Mean Value Theorem, integrals, definite integral, Fundamental Theorem of Calculus, antiderivatives. Admission to Teacher Education and permission is required.

MAE 6387 Teaching Calculus Concepts in Secondary Education II
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAE 6386

Designed for math teachers. The overall objective is to increase knowledge and competence for math teachers in both content and pedagogy related to the teaching and learning of Calculus. The primary topics to be covered are: integration methods, definite integrals, applications of definite integrals, exponential, logarithmic, and inverse trigonometric functions, hyperbolic functions, infinite sequences, and series. Admission to Teacher Education and permission is required.

MAE 6388 Teaching Statistics Concepts in Secondary Education
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105 and STA 2023

Introduces statistical concepts; probability distributions; interpretations of statistical concepts and graphs; methods for doing parameter estimation, hypothesis testing; chi-square test; analysis of variance; simple linear regression. Admission to Teacher Education and permission is required.

MAE 6647 Exploring Data Analysis
Department: Mathematics
3.0 sh (may not be repeated for credit)

Teachers engage in a process of data analysis that includes posing questions, collecting and describing data, developing statistics or graphical displays, and forming conclusions. They develop a variety of statistical thinking skills and an appreciation for data analysis as a tool for answering important real-world questions.

MAE 6659 Introduction to Online Learning and Mathematical Inquiry
Department: Mathematics
3.0 sh (may not be repeated for credit)

Introduces inquiry learning in mathematics and the online learning environment. Working in "virtual study groups," teachers conduct mathematical investigations, use interactive math tools, and participate in inquiry-based learning experiences similar to ones for their students. Throughout, teachers consider ways to communicate their mathematical thinking clearly and accurately. Mathematics concepts and activities address whole number place value, composition and decomposition of numbers, perimeter of rectangles, analyzing patterns, representing patterns in words and symbols, and mathematical explanation.

MAE 8980 Ed. D. Dissertation in Mathematics Education
Department: Mathematics
1.0-18.0 sh (may be repeated for up to 36.0 sh of credit)

Major independent research designed especially for candidates in the Ed. D. curriculum and instruction program with specialization in mathematics/statistics; mathematics education. This dissertation will reflect intensive research produced by the student and collaboratively developed with the student's graduate committee. Graded on satisfactory/unsatisfactory basis only. Admission to candidacy and permission of Dissertation advisor is required.

MAN - MANAGEMENT

MAN 3025 Management Fundamentals
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester hours of college course work is required prior to taking this course.

Study of principles of management. Process and content of management analyzed. Emphasizes classical, human relations, human resources, behavioral and quantitative management methods. Content includes planning, organizing, leading, control, employment cycle, organization design, and motivation.

MAN 3240 Behavior in Organizations
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester hours of college course work is required prior to taking this course.

A study of human and group behavior in organizations and within society. The focus is on developing student ability to work in group settings and organizations. Topics include personality, motivation, leadership, communication, power, change, and conflict. May not be taken for credit by students having credit for SOP 3662 or INP 3313.

MAN 3301 Human Resources Management
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester hours of college course work is required prior to taking this course.

Introduction to personnel administration; emphasis on the basic personnel function of both the personnel specialist and the operating manager. Critical issues stressed include selection, compensation, OSHA, EEO, unions and discipline.

MAN 3360 Industrial Psychology
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Application of psychological principles to problems of employee selection, placement, merit rating, job analysis, management training and other factors related to productivity. May not be taken for credit by students having credit for INP 3004.

MAN 3504 Operations Management
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023

Application of quantitative and qualitative management techniques for improving quality and efficiency of manufacturing and service organizations. Coverage of productivity, quality, forecasting, design of goods/services, project management and other related topics.

MAN 3550 Introduction to Management Science
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: MAN 3025, MAC 2233

Quantitative decision-making methods and their application to planning and control of operations. Systems concept of organization and mathematical reasoning in decision-making emphasized. Cases and incidents provide illustrations. Credit may not be earned in both MAN 3540 and MAN 3550.

MAN 3583 Project Management
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: Completion of 45 hours of college course work is required prior to taking this course.

An introduction to the field of Project Management. Covers concepts and skills used to propose, plan, secure resources, budget, manage risk, and lead teams to successful project completion. The course emphasizes the universal nature of the techniques which enable individuals to manage a variety of projects in diverse organizational settings. Students individually develop project plans for projects in their respective disciplines.

MAN 3802 Small Business/Family Business Management
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 2071, ECO 2023, MAN 3025, and MAR 3023

Introduces the student to the world of small business and family business management. Explores the managerial processes related to these areas and differentiates them from those found in corporations and large organizations. Provides the student with an opportunity to analyze the mind of the small business manager, brainstorm potential business options, and consider various contemporary issues facing the small business manager. Group projects will be utilized and oral and written reports will be required.

MAN 3949 Cooperative Education
Department: Management/MIS
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAN 4102 Management of Diversity
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 5116; graduate students will be assigned additional work. Meets Multicultural requirement.

MAN 4441 Business Negotiation
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: Completion of 60 semester hours of college course work is required prior to taking this course.

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 5446; graduate students will be assigned additional work.

MAN 4720 Policy Analysis and Formulation
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 3403, MAN 3025, MAN 3504, MAR 3023

Aggregate planning and development of overall policy for organizations. Emphasizes the system interrelationship of the functional areas of enterprise from the viewpoint of top executives. Senior status and permission is required.

MAN 4750 The Future: Projecting, Planning and Managing
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Roles that individuals and organizations have in managing the future. Senior status is required; business majors only.

MAN 4801 Business Plan Development for New Ventures
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: BUL 3130, FIN 3403, MAN 3025, MAR 3023

Students working in teams will brainstorm potential business options and develop a business plan to serve as a strategic roadmap for the proposed venture as well as the basis for seeking financial support from lenders and/or investors. Business plans will be presented to a jury of practitioners who will evaluate its practical merits and the presentation. Group projects will be utilized and oral and written reports will be required.

MAN 4940 Internship in Management
Department: Management/MIS
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

On an "as available" basis, management majors may request an internship in management by submitting written proposals to faculty advisors. Proposals must be approved by advisor, chairperson and sponsor. Students must have a 2.5 GPA overall and a 3.0 GPA in management to be eligible for internships. All internships include seminar on internship experience, including written reports. Graded satisfactory/unsatisfactory basis only. Senior status required. Permission is required.

MAN 5116 Management of Diversity
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Roles, behaviors, career paths, motivational strategies, obstacles, and collegial reaction to managing diversity within the labor force are an integral aspect of the course. Personal assessment of communication styles and diversity in management styles are provided. Discussions focus on diversity awareness and strategies to enhance productivity through team effort. Emphasis on proactive steps to integrate a diverse work force toward a more productive unit. Offered concurrently with MAN 4102; graduate students will be assigned additional work. All majors encouraged. Graduate student status is required. Credit may not be earned in both MAN 5105 and MAN 5116.

MAN 5446 Business Negotiation
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: Graduate standing required.

A practical understanding of negotiation theories and concepts from a business perspective is offered. Students differentiate and practice distributive and integrative negotiation strategies via business related role plays and cases. As future managers, students: 1) practice negotiation where their responsibility exceeds their authority; 2) build coalitions among different stakeholders; and 3) analyze business conflict situations and select strategies to resolve differences. Offered concurrently with MAN 4441; graduate students will be assigned additional work.

MAN 5806C Small Business Management Consulting
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Practicum in providing management assistance to small businesses in area. Usually students work in pairs and provide assistance to two business firms. Weekly meetings,

teaching in consulting and final written report on each firm constitute principal elements. Senior or graduate status, 3.0 GPA and permission are required.

MAN 6156 Management and Organizational Behavior
Department: Management/MIS
3.0 sh (may not be repeated for credit)

Appreciation and understanding of the field of organizational behavior and its application in managing human and other resources. Emphasizes understanding individual behavior (motivation, self-awareness, leadership, etc.) and group dynamics (decision-making, group development and work) plus conflict, climate, learning styles, power, stress, process/content, human rights and quality. Utilizes experiential learning methodologies and other appropriate designs. May not be taken for credit by students having credit for INP 6397. Permission is required.

MAN 6285 Organizational Change and Development
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: MAN 6156

Organizational development: change agentry, role of self in O.D., change theory, feedback methodology, relationship building, team building and quality. Lab learning methodology. Expanded emphasis on field work and application can follow as MAN 6943. May not be taken for credit by students having credit for SOP 6668.

MAN 6511 Operations Management Problems
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: QMB 6305

Planning and control of domestic and multinational service and manufacturing operations utilizing information inside and outside the organization. Techniques to plan and improve location, layout, flow through the facility, design of work, and management of the human factor; all with an emphasis on management and maintenance of quality. Contains a portfolio project.

MAN 6721 Strategic Management and Policy Formulation
Department: Management/MIS
3.0 sh (may not be repeated for credit)
Prerequisite: FIN 6406, MAR 6815, ECP 6705

Utilizes case analysis, a strategic simulation and other related experiential exercises. Integrates and applies the various business management functions from the strategic viewpoint of the organizational chief executive officer. Designed for M.B.A. candidates and should be taken the last semester before graduation. Permission is required.

MAP - MATHEMATICS: APPLIED

MAP 2302 Differential Equations
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Introduction to ordinary differential equations; emphasis on linear equations, operator methods, systems of equations. Applications. (Gordon Rule Course: Theoretical Math)

MAP 4103 Mathematical Modeling
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAP 2302

Mathematical models of physical problems leading to differential equations. Problems selected from biology, electrical circuitry, mechanics, etc. Methods of solution include Laplace transform, Fourier series, separation of variables and calculus of variations. (Gordon Rule Course: Theoretical Math)

MAP 4115 Introduction to Stochastic Processes
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312

General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal Theory, Branching processes, Queueing systems, applications to quality control. (Gordon Rule: Mathematics-Applied). Offered concurrently with MAP 5116; graduate students will be assigned additional work.

MAP 4341 Partial Differential Equations
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAP 2302

First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 5345; graduate students will be assigned additional work.

MAP 4470 Probability and Distribution Theory
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Mathematical methods of probability, conditional probability, stochastic independence; mathematical derivation of expectations, moment generating functions of discrete and continuous random variables, expectations, joint densities, marginal and conditional densities, conditional expectations;

theory of probability inequalities, transformation of random variable's order statistics.

MAP 5XX1 Introduction to Mathematical Statistics I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Probability, conditional probability, distributions of random variables, distribution of functions of random variables, limiting distributions, multivariate probability distributions. Offered concurrently with STA 4321; graduate students will be assigned additional work. Permission is required.

MAP 5116 Introduction to Stochastic Processes
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312 or equivalent

General stochastic processes with emphasis on Markov Chains, stationary distribution of Markov Chains, Renewal theory, Branching processes, Queueing systems, applications to quality control. Offered concurrently with MAP 4115; graduate students will be assigned additional work.

MAP 5345 Partial Differential Equations
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAP 2302

First-order equations, derivation and classification of second-order equations. Solution techniques of boundary value and initial value problems; applications. (Gordon Rule Course: Theoretical Math) Offered concurrently with MAP 4341; graduate students will be assigned additional work.

MAP 5471 Advanced Probability and Inferences
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Advanced topics in probability, limit theorems, limiting distributions, order statistics, weak law of large numbers, strong law of large numbers, central limit theorem. Advanced topics in point and interval estimation, measures of quality of estimates, Exponential families, Completeness, Unbiasedness, Cramer-Rao inequality, Rao-Blackwell theorem, minimum variance unbiased estimators, maximum likelihood estimators principles, Bayes' and minimax estimation, Robust estimation; Advanced hypothesis testing.

MAP 6106 Mathematical Methods of Operations Research I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAS 3105 or MAS 5107 and STA 4321

Mathematical linear programming models, theory of simplex method, revised simplex methods, dual simplex methods; duality theory and sensitivity analysis, transportation problems, theory of integer programming. Credit may not be received for both MAP 6106 and STA 6607.

MAP 6107 Mathematical Methods of Operations Research II
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAP 6106 or STA 6607

Interior-point algorithm, linear goal programming, game theory, nonlinear programming, network analysis, PERT/CPM, queueing theory. Credit may not be received in both MAP 6107 and STA 6608.

MAP 6108 Mathematical Modeling and Initial and Boundary Value Problems
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAA 4212, MAP 2302, and MAS 3105.

Methodology and framework for mathematical modeling. Current topics in applied mathematics will be presented emphasizing the interdependency of mathematics and its applications to physical, societal and other "real world" phenomena.

MAP 6406 Multivariate Analysis
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321, STA 5206, STA 5207.

Eigenvalue decomposition; interpreting eigenvalues and eigenvectors; multivariate extensions of chi-square and t-tests; discrimination and classification procedures; multivariate analysis of variance; factor analysis; principal components analysis; applications to diagnostic problems in biological, medical, anthropological and social research.

MAR - MARKETING

MAR 3023 Marketing Fundamentals
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: Completion of 45 semester hours of college coursework is required prior to taking this course.

Function of marketing in our economic system; role of the consumer in marketing decisions; the decisions marketing managers must make to provide goods and services priced, promoted and distributed to meet organizational objectives in changing environments.

MAR 3202 Supply Chain Logistics Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Presents the fundamental elements of integrated supply chain and logistics management. It examines the strategic and operational decisions necessary to plan, implement, and control the procurement, storage, management, and distribution of materials, components, and finished goods. Emphasis is placed on product, service, information, and financial flows as facilitated by supply chain logistics strategies, transportation and distribution center operations, facility and network design, inventory and order management, customer service, information execution systems, and outsourcing decisions.

MAR 3370 Information Sources for Business Decisions
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Focuses on various secondary information sources that may be used for business decisions. Students learn how secondary information is organized, what types of secondary information sources are available and how these sources may be effectively and efficiently searched. Emphasis is placed on learning the types of online information services and knowledge of when to use which service. A course project is designed to teach students to evaluate, integrate, and report information. A valuable tool in helping students access information; should be taken early in the junior year if possible. Students will be expected to have some familiarity with Windows and the Internet.

MAR 3503 Consumer Behavior
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

The study of people as customers of business - how they think and feel when making purchase choices and how they behave in the marketplace. Draws from theory in marketing, social psychology, anthropology, economics, and other social sciences to describe how customers respond to marketing strategies. Emphasis on how to use this in-depth understanding of the market to create winning marketing and business strategy.

MAR 3714 Sports Markets
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: ECO 2013 and ECO 2023, or ECO 3003, MAR 3023.

Systematic study of the spectator sports industry. The role and importance of the commercial sector is a particular emphasis. Focus on the structure and characteristics of sports markets and how to develop them with sports marketing.

MAR 3860 Customer Relationship Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Understanding the needs, desires and behavior of customers often determines which company will survive. Customer Relationship Management (CPM) is doing business through one-to-one relationships using new technological advances created by the information revolution. Focuses on customer development and retention, particularly for the firm's best customers, with emphasis on the management of customer relationships.

MAR 3948 Service Learning Field Study II
Department: Marketing & Economics
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

MAR 3949 Cooperative Education
Department: Marketing & Economics
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

MAR 4156 Seminar in International Marketing
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023, FIN 3403, GEB 4361.

Emphasis on the emergence of a global marketplace and significant new challenges facing business management in a competitive and rapidly changing international environment. Stresses the problems and challenges that differences in cultural, political, and socioeconomic environments introduce into the marketing process in international operations. Main focus is on the European Union, broadly interpreted to include countries throughout Europe. Foreign competitors and their effects on the American market will also be explored. Meets Multicultural requirement.

MAR 4231 Retail Strategy
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Instruction in beginning a successful management career in retailing. The retail firm is presented as an integral part of the overall supply chain with emphasis on entrepreneurial and small business retail strategy and operations applicable to a wide variety of industries. Focus is on equipping students with knowledge and skills necessary to create realistic and successful retail strategy.

MAR 4324 Integrated Marketing Communications: Principles
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Examines the principles of advertising, sales promotion, and related tools within the context of the overall marketing communications program. Focuses on the relationship of advertising, sales promotion, and other tools to marketing plans, the different types of strategic and tactical methods which can be employed, and the evaluation of the overall campaign.

MAR 4333 Integrated Marketing Communications: Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023 and one of the following: ADV 3000, MAR 3323 or MAR 4324

Formulation of marketing communication policies involving an analysis of cases dealing with the role of marketing communication in marketing; determination of objectives, strategy, appropriation policy, media selection, evaluating marketing communication results, and organization of marketing communication functions.

MAR 4403 Sales Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Analysis of the manager's role in sales force management and related organizational environments. Getting results through others by planning, organizing, staffing, directing, controlling, and motivating employees to achieve the organization's objectives. The process of attaining influence, recognition, and power in an organization.

MAR 4412 Professional Selling Methods
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Analysis of professional selling methodology including communication, persuasion, negotiation, and salesmanship. Evaluation of these principles in both business and social environments. Credit may not be received in both MAR 4412 and MAR 4701.

MAR 4613 Marketing Research
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023, STA 2023

Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 5616; graduate students will be assigned additional work.

MAR 4721 Internet Marketing Principles
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Examines the principles of Internet Marketing in the context of an integrated marketing program. Internet marketing strategies and tactics will be examined in order to implement business operations on the Internet. Students will be exposed to Web design packages and techniques useful in the development of Internet Marketing Web sites. Offered concurrently with MAR 5726; graduate students will be assigned additional work.

MAR 4728 High Tech Product Marketing Strategy
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Emphasizes issues associated with marketing high-technology products in an environment of rapid technological change and ever increasing market demands, and focuses on the strategic decisions related to the development, pricing, distribution, and promotion of technology- based products. Offered concurrently with MAR 5729; graduate students will be assigned additional work.

MAR 4734 Internet Marketing Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023, MAR 4721

Development of advanced managerial skills relevant to the creation, design, and implementation of an integrated Internet marketing program. Students will create and deploy a real-world Internet business utilizing the advanced strategies, tactics, and planning mechanisms acquired. Credit may not be received in both MAR 4734 and MAR 4880.

MAR 4803 Marketing Strategy
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023, MAR 3503, ACG 3311, FIN 3403

The integrative capstone experience for all marketing program specializations. Instructional focus is on blending knowledge gained in previous marketing and other business

course work with advanced analysis skills in a strategic decision-oriented environment. Course relies primarily on case analysis as an instructional method. Should be taken in the last semester of the student's program of study.

MAR 4841 Services Marketing
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

The US, as well as much of the world economy, is dominated by services. Service organizations such as banks, transportation companies, hotels, educational institutions, and consulting firms require a distinctive approach to marketing--both in its development and execution. This course will build and expand on ideas from Marketing Fundamentals and other marketing courses to address the distinct needs and challenges of managing services and delivering quality service to customers. Credit may not be received in both MAR 4841 and MAR 4842.

MAR 4941 Marketing Internship
Department: Marketing & Economics
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: MAR 3023

Supervised field practicum in marketing-related position. May include activities in any one or more functional areas of marketing (research, sales, advertising, promotion, etc.). Graded on satisfactory/unsatisfactory basis only. A 3.0 GPA in major courses and permission are required.

MAR 4946 Marketing Consulting
Department: Marketing & Economics
3.0 sh (may be repeated for up to 6.0 sh of credit)

Students are assigned to teams and each team is responsible for working with a client who is an owner/manager of a local business firm. Student teams are responsible for determining a client's marketing problems and for proposing solutions to these problems. In most cases, student teams will actually aid the client in implementing recommended solutions. Student teams are required to write a report and to make an oral presentation. Since a wide range of related issues may be encountered, including accounting, finance, management as well as marketing issues, senior standing is required.

MAR 5616 Marketing Research
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023 and STA 2023

Conducting marketing research to provide information to be used in decision-making. Emphasis placed on problem formulation and evaluation of research designs leading to problem resolution. Data analysis using statistical analysis package and research report writing. Requires marketing research project. Offered concurrently with MAR 4613; graduate students are required to write an additional research paper or its equivalent.

MAR 5726 Internet Marketing Principles
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023 or (for non-business majors only) GEB 3032.

Examines the principles of Internet Marketing in the context of an integrated marketing program. Internet marketing strategies and tactics will be examined in order to implement business operations on the Internet. Students will be exposed to Web design packages and techniques useful in the development of Internet marketing Web sites. Offered concurrently with MAR 4721; graduate students will be assigned additional work.

MAR 6815 Marketing Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023, QMB 6305

Creation of enduring and mutually satisfactory customer relationships through the provision of customer value as an enterprise management philosophy. With consideration given to operating environments, the course is designed to teach the formulation, implementation, and control of comprehensive marketing strategy with emphasis on the integrative aspects of the marketing function in a market based enterprise. Both qualitative and quantitative analyses are used in an applications oriented context. Contains a portfolio project.

MAS - MATHEMATICS: ALGEBRAIC STRUCTURES

MAS 3105 Linear Algebra
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Systems of linear equation, row echelon form, matrix algebra, determinants and their properties, vector spaces, linear independence, base and dimension, row and column spaces, linear transformations and their matrix representations, similarity, inner product and orthogonality, eigenvalues and eigenvectors, diagonalization, applications of linear algebra. (Gordon Rule Course: Theoretical Math)

MAS 4156 Vector Analysis
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Vector algebra and calculus; line, surface and volume integrals, theorems of Green, Gauss and Stokes. (Gordon Rule Course: Theoretical Math)

MAS 4203 Number Theory
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Divisibility properties of integers, number-theoretic functions, Diophantine equations, theory of congruences and topics in cryptography. (Gordon Rule Course: Theoretical Math)

MAS 4301 Abstract Algebra
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Concepts of basic algebraic structures, set, group, ring, integral domain and field. (Gordon Rule Course: Theoretical Math)

MAS 5107 Matrix Theory
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAS 3105

Canonical forms of matrices, similarity, quadratic forms.

MAT - MATHEMATICS

MAT 1033 Intermediate Algebra
Department: Mathematics
4.0 sh (may not be repeated for credit)

Provides preparation in the elements of algebra that are required for higher mathematics and statistics courses. Covers basic principles and techniques of the following topics: factoring algebraic expressions, manipulation of algebraic fractions, radicals and exponents; complex numbers, linear, quadratic and rational equations, systems of linear inequalities and their graphical representation, introduction to functions. College preparatory algebra or appropriate score on placement test is required prior to taking this course. Credit towards Gordon or General Studies cannot be earned in MAT 1033.

MAT 4500 Undergraduate Proseminar in Mathematics/Statistics
Department: Mathematics
1.0 sh (may not be repeated for credit)

Each senior (except students with the secondary track specialization) shall, under the supervision of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education. The student shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students with an opportunity to integrate the experience and knowledge they have gained during their undergraduate studies. Graded on satisfactory/unsatisfactory basis only. Senior standing and permission is required.

MAT 6930 Proseminar in Mathematics
Department: Mathematics
1.0 sh (may not be repeated for credit)

Each M.A. or M.A.T. candidate (except those who choose the thesis option) shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory/unsatisfactory basis only. M.A. candidacy and permission is required.

MAT 6971 Thesis
Department: Mathematics
1.0-6.0 sh (may be repeated for up to 8.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

MCB - MICROBIOLOGY

MCB 1000 Fundamentals of Microbiology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 1032 and CHM 1032L
Co-requisite: MCB 1000L

An introductory microbiology course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. Will cover the principles of microbiology, including cellular organization, growth, and metabolism of major microbial groups (bacteria, fungi, viruses and protozoa); cultivation and control of microbes; and the interaction between microorganisms and humans as it relates to disease transmission, pathogenesis, control measures, and treatment. (General Studies Course: NS/LEC)

MCB 1000L Fundamentals of Microbiology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 1032 and CHM 1032L
Co-requisite: MCB 1000

An introductory microbiology laboratory course for non-science majors specifically designed to meet the microbiology pre-requisite requirement for the 4 year BSN degree. The lab will focus on basic microbiological techniques relating to isolating, growing, and identifying

medically significant microorganisms. Laboratory exercises include microscopy and staining techniques; asepsis and culturing of microorganisms; appropriate handling techniques, including sterilization and disinfection; and methods of enumeration and identification of bacteria. Emphasis will be placed on those concepts and methods that are significant in the medical setting. Material and supply fee will be assessed. (General Studies Course: NS/LAB)

MCB 3020 Microbiology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2046
Co-requisite: MCB 3020L

Microbial morphology, physiology and taxonomy; relationships of microorganisms to total environment. Material and supply fee will be assessed for corresponding lab.

MCB 4276 Epidemiology of Infectious Disease
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: MCB 3020

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 5273; graduate students will be assigned additional work.

MCB 4401 Marine Biotechnology
Department: Biology
3.0 sh (may not be repeated for credit)

Examines the issues related to the development of goods and services derived from marine organisms and processes. Scientific and socio- economic factors related to the development of marine derived pharmaceuticals, technologies that ensure seafood quality, and marine agricultural chemicals, aquaculture, coastal restoration, and marine toxins will be discussed from an applied molecular biology perspective. The course will consist of discussions and readings of the topics listed above as well as others from around the world. This course is cross- listed with MCB 5402; graduate students will be assigned additional work.

MCB 5273 Epidemiology of Infectious Disease
Department: Biology
3.0 sh (may not be repeated for credit)

The basic principles of epidemiology as they apply to infectious disease and the impact of infectious disease on human civilization will be addressed. The causes and distribution of current epidemics of infectious disease, including newly emerging and reemerging diseases, and the approaches being applied to defeat these diseases will be discussed. Offered concurrently with MCB 4276; graduate students will be assigned additional work.

MCB 5402 Marine Biotechnology
Department: Biology
3.0 sh (may not be repeated for credit)

Examine the issues related to the development of goods and services derived from marine organisms and processes. Scientific and socio- economic factors related to the development of marine derived pharmaceuticals, technologies that ensure seafood quality, agricultural chemicals, aquaculture, coastal restoration, and marine toxins will be discussed from an applied molecular biology perspective. The course will consist of discussions and readings of the topics listed above as well as others from around the world. This course is cross- listed with MCB 4401; graduate students will be assigned additional work.

MCB 5735 Marine Microbiology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: MCB 3020
Co-requisite: MCB 5735L

Advanced biology, ecology, and diversity of marine microbes. To define the past and current methodologies for the physiological, genetic, and ecological study of bacteria and their strengths and limitations. Offered concurrently with MCB 4733; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed for corresponding lab.

MGF - MATHEMATICS: GENERAL AND FINITE

MGF 1106 Mathematics for Liberal Arts I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAT 1033

Presents topics that illustrate both the aesthetic aspects and the practical applications of mathematics. Intended for students who require only general education mathematics courses. Major course topics: systematic counting, probability, statistics, history of mathematics, geometry, sets, logic. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT)

MGF 1107 Mathematics for Liberal Arts II
Department: Mathematics
3.0 sh (may not be repeated for credit)

Presents topics that supplement those in MGF 1106 needed by elementary teachers. Intended for students in elementary education. Major topics: number sets and properties, number

theory, geometry, measurement, graphs--all taught within a problem solving approach. (Gordon Rule Course: Theoretical Math) and (General Studies Course: MAT/MAT).

MHF - MATHEMATICS: HISTORY AND FOUNDATIONS

MHF 3202 Set Theory and Mathematical Logic
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312
Co-requisite: MAC 2312

Basic set theory, propositional calculus, predicate calculus, methods of mathematical proof. (Gordon Rule Course: Theoretical Math)

MHS - MENTAL HEALTH SERVICES

MHS 6800 Guidance and Counseling Practicum
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Under the supervision of a practicing counselor and university supervisor, students will demonstrate their knowledge and abilities in the role of individual and group counseling, collaborator with other educators, and coordinator of guidance services. All coursework in the guidance and counseling certification program, and permission is required.

MLS - MEDICAL LABORATORY SCIENCE

MLS 3031 Introduction to Clinical Laboratory Science
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)

Survey course in clinical laboratory sciences. Introduction to the profession, scope of practice, state/federal laws and regulations, code of ethics, and career opportunities. Classroom instruction and field trips to various sections in a clinical laboratory: hematology, clinical chemistry, diagnostic microbiology, immunohematology, serology, and molecular diagnostics.

MLS 4191 Molecular Diagnostics
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)
Prerequisite: MLS 4625 and MLS 4630
Co-requisite: MLS 4191L

This course offers fundamentals of clinical diagnosis and management of disease by molecular biology laboratory methods. Two broad areas in the current state of the art will be addressed: molecular diseases/variants and molecular methods to diagnose and monitor disease. Disorders due to inherited or acquired molecular defects such as errors of metabolism, hemoglobinopathies, leukemia, and cystic fibrosis are discussed. Principles and procedures for the diagnosis and management of infectious diseases by molecular methods are also included. The discussion of molecular approaches to diagnosing and monitoring these diseases will span the conventional methods of PCR, gel electrophoresis and Southern Blotting to semi-automated methods of TMA, LCR and Real-time PCR. A survey of molecular diagnostic methods currently available in various sections of a clinical laboratory is included. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4220 Urinalysis/Body Fluids I
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)
Co-requisite: MLS 4220L

Teaches the entry level clinical laboratory scientist the physiology, routine testing and interpretation for the following body fluids: urine, cerebrospinal fluid, semen, sweat, serous fluids (peritoneal, pleural, pericardial, synovial), and dialysates. Correlation of lab findings to various disease conditions is stressed. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4305 Hematology I
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Prerequisite: PCB 2131
Co-requisite: MLS 4305L

Study of production, maturation and morphology of normal and abnormal human blood cells. Pathological changes in morphology, cytochemistry and distribution of cells in peripheral blood and bone marrow. Manual and automated methods for blood cell counts, hemoglobin measurement and other hematology parameters. Purpose, principle and clinical value of routine and special procedures. Quality control and quality assurance processes in a clinical hematology laboratory. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4334 Hemostasis and Thrombosis
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)
Co-requisite: MLS 4334L

Role of blood vessels, platelets and coagulation factors in normal hemostasis. Platelet morphology and function, laboratory tests for evaluation of platelets, and platelet disorders. Study of coagulation factors, coagulation pathways, and inherited and acquired coagulation disorders. Normal fibrinolysis and disorders of fibrinolysis. Physiologic and pathologic coagulation inhibitors and their role in normal and abnormal hemostasis. Diagnosis and management of hemorrhagic diseases. Thrombotic disorders and their management by anticoagulant therapy and fibrinolytic

therapy. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4460 Diagnostic Microbiology I
Department: Clinical Laboratory Sciences
3.0 sh (may not be repeated for credit)
Prerequisite: MCB 3020, MCB 3020L, MCB 3023, MCB 3023L
Co-requisite: MLS 4460L

Study of bacteria associated with infectious diseases. Includes microbial taxonomy, physiology, genetics and host-parasite relationships as they apply to clinical microbiology. Pathogens of particular organ systems, pathogenesis of infectious disease, clinical manifestations, etiology and epidemiology of disease are covered. Interpretation of test results and clinical relevance are taught utilizing case studies. Permission is required. Equipment Fee will be assessed.

MLS 4460L Diagnostic Microbiology I Laboratory
Department: Clinical Laboratory Sciences
1.0 sh (may not be repeated for credit)
Prerequisite: MCB 3020, MCB 3020L, MCB 3023L, MCB 3023L
Co-requisite: MLS 4460

Methods for specimen collection, handling and processing of human tissues and body fluids for isolation and identification of bacteria. Conventional and rapid identification methods for clinically significant bacteria, principles of automation, susceptibility testing, infection control, and quality assurance procedures are included. Material and supply fee will be assessed. Permission is required.

MLS 4462 Medical Microbiology
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Prerequisite: MCB 3020, MCB 3020L, MCB 3023, MCB 3023L
Co-requisite: MLS 4462L

Study of medical microbiology covering areas of clinical parasitology, mycobacteriology, clinical virology, clinical mycology, and miscellaneous and emerging pathogens. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4505 Serology
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)
Co-requisite: MLS 4505L

Diagnostic tests by clinical immunology and serology methods. Principles and practical applications of laboratory methods based on the detection of specific and non-specific immune responses to foreign or autologous antigens. Traditional serological methods for diagnosis of bacterial, viral, and fungal organisms. Latest immunological and molecular methods for detection and confirmation of HIV, hepatitis, HTLV, chlamydia, rubella and other significant pathogens. Lab methods for diagnosis of SLE and other autoimmune diseases. Basics of hypersensitivity reactions and transplantation immunology. Material and Supply Fee will be assessed to corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4550 Immunohematology I
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Co-requisite: MLS 4550L

Fundamentals of blood group immunology. Pre-transfusion testing of patient blood and donor blood for compatibility. Antigens, antibodies and their properties in clinically significant blood group systems. ABO & RH typing, compatibility testing and special tests. Antibody screen and identification. Autoimmune Hemolytic Anemia and Hemolytic Disease of the Newborn. Transfusion therapy, hazards of transfusion and investigation of transfusion reactions. Donor selection, collection of donor blood and testing for infectious agents. Preparation, storage and utilization of blood components. Regulations, medico-legal and ethical aspects of transfusion services. Material and Supply Fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4625 Clinical Chemistry I
Department: Clinical Laboratory Sciences
3.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033 Biochemistry I
Co-requisite: MLS 4625L

Introduction to the basic principles and procedures of clinical chemistry. Lecture and lab devoted to chemical analysis of blood and other body fluids. Lab safety, specimen collection/handling/storage; lab mathematics, basic lab instrumentation and automation, data management, reference range determination and quality control monitoring will be stressed throughout the course. This class will discuss the pathophysiology and diagnostic testing related to the metabolism of carbohydrates and lipids, assessments of diabetes and diabetic risk, assessments of cardiac risk and monitoring and prognosis following myocardial infarction. Methodologies discussed include spectrophotometry, immunodiagnostics and computer generated analyses. Students will participate in class discussions about recent research in clinical chemistry which will be presented in the forms of abstracts, research papers and figures. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4630 Clinical Chemistry II
Department: Clinical Laboratory Sciences
3.0 sh (may not be repeated for credit)

Prerequisite: MLS 4625 and MLS 4625L
Co-requisite: MLS 4630L

This course continues where Clinical Chem I left off, discussing kidney function, electrolytes, blood gases, acid-base balance, mineral metabolism, enzyme measurement, liver function studies, and pancreatic function assessment. It also includes the more esoteric tests involved in testing endocrine function, therapeutic drug monitoring, toxicology, tumor markers, and testing during pregnancy. Methodology is primarily immunoassay, potentiometry and spectrophotometry. Reading and disseminating research in the discipline is emphasized in the format of a journal club. Material and Supply fee will be assessed for corresponding lab. Equipment Fee will be assessed. Permission is required.

MLS 4705 Special Clinical Topics
Department: Clinical Laboratory Sciences
1.0 sh (may not be repeated for credit)

Fundamentals of clinical laboratory management, supervision and educational methodologies are covered. Students are introduced to clinical laboratory operations in areas of financial and human resource management, marketing of laboratory services, communications with other health care professionals, laboratory information systems and regulatory compliance with applicable regulatory agencies. Other special clinical topics related to education and training, lab safety, HIV/AIDS, prevention of medical errors, professional ethics and career planning are presented.

MLS 4820L Clinical Chemistry III
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Prerequisite: MLS 4625 and MLS 4630

Application of clinical chemistry principles and techniques presented in Clinical Chemistry I and II. Supervised practice in the hospital laboratory. Permission is required.

MLS 4821L Diagnostic Microbiology II
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Prerequisite: MLS 4460 and MLS 4462

Application of clinical microbiology principles and techniques presented in MLS 4460. Supervised practice in an affiliated hospital laboratory. Includes manual and automated identification and susceptibility testing, specimen collection and processing, quality assurance, and laboratory organization. Permission is required.

MLS 4822L Hematology II
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Prerequisite: MLS 4305 and MLS 4305L

Application of Hematology I. Advanced practical training in automated hematology instrumentation, routine and special procedures in hematology lab, and practice of quality control methods, maintenance and trouble shooting of clinical hematology equipment. Training includes all aspects of clinical lab medicine in a modern hematology/coagulation lab and prepares the student to assume responsibility as a medical technologist. Permission is required.

MLS 4823L Immunohematology II
Department: Clinical Laboratory Sciences
4.0 sh (may not be repeated for credit)
Prerequisite: MLS 4550 and MLS 4550L

Continuation of Immunohematology I, at one of the affiliate hospitals. Advanced practical training in modern blood banking and transfusion services at the hospital. Training includes practice and performance, under supervision, of all the procedures involving pre-transfusion tests on patient's blood, selection of donor blood, compatibility determination, problem solving, release of suitable blood/blood components for transfusion therapy. Permission is required.

MLS 4824L Special Clinical Methods
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)

Supervised practice in a hospital laboratory. Special methods in clinical laboratory sciences, including non-routine (special) chemistry procedures and methods in immunodiagnostics, mycobacteriology and clinical mycology. Permission is required.

MLS 4825L Urinalysis/Body Fluids II
Department: Clinical Laboratory Sciences
2.0 sh (may not be repeated for credit)

Supervised practice in a hospital laboratory in the analysis of urine and other body fluids; techniques in parasitology and phlebotomy procedures. Permission is required.

MLS 4931 Advances in Biomedical Technology
Department: Clinical Laboratory Sciences
1.0-2.0 sh (may be repeated for up to 2.0 sh of credit)

Developments in biomedical technology including stem cells, new and emerging pathogens, advances in cardiac and cancer diagnosis, screening for fetal defects, drug testing, transfusion medicine, osteoporosis and cystic fibrosis screening. Current topics in screening, diagnosis and management of disease by laboratory methods. One course in chemistry and one course in biological sciences required prior to taking this course.

MMC - MASS MEDIA COMMUNICATION

MMC 2000 Principles of Mass Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Principles, issues, organizations and functions of film, radio, television, print and other media of mass communication. Consideration of current practices and recent developments and their implications for the future direction of mass media. (General Studies Course: SS/SOC)

MMC 3261 Computer Mediated Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examination of theoretical and practical issues emerging from the use of the Internet as a communication medium. Focus is on the legal, social, and ethical problems arising from the use of computers in communication. Students also acquire skills in creating content for the Web, and in critical analysis of Web sites. Applications of the Web for advertising, public relations and journalism are discussed. Basic familiarity with computer use and operating systems is required. Credit may not be received in MMC 3261 and MMC 3261C.

MMC 3601 Minorities and the Mass Media
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Concerns of mass media as they pertain to minority issues; review of mass media portrayals of minorities; problems of minority access to mass media; prospects for mass media and cultural diversity in the 21st Century. Meets Multicultural requirement.

MMC 4201 The Constitution and the Press
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions. Offered concurrently with MMC 5206; graduate students will be assigned additional work.

MMC 4203 Media Ethics
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Introduces students to classical ethical philosophies; presents various ethical decision-making strategies; application of ethical models to information-gathering and dissemination dilemmas; helps students form an ethical framework for future positions of responsibility in mass media industries; introduces students to the case method of instruction. Offered concurrently with MMC 5208; graduate students will be assigned additional work.

MMC 4252 Media Sales
Department: Communication Arts
3.0 sh (may not be repeated for credit)

The convergence of new and old technologies will redefine past concepts of the media. In this new, digital, interactive, high-cost, highly fragmented, and highly competitive media world, generating revenue is a top priority for survival. Sales people and sales managers have become more important to the media industry. Introduces students to the principles of media selling and sales management and prepares them for media selling and sales management jobs at a time when media companies are cutting back in almost every area except sales, where jobs are actually increasing.

MMC 4300 Global Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Study of comparative mass media systems (telecommunication, film and print media) and related problems and issues of culture, national development, foreign policy, national sovereignty, regulation and policy, information flow, propaganda, human rights and global trends in telecommunication. Offered concurrently with MMC 5306; graduate students will be assigned additional work. Senior standing is required. Meets Multicultural requirement.

MMC 5206 The Constitution and the Press
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Concerns of the press as they pertain to prior restraint, libel, privacy, testimonial privilege, access to information, obscenity and ensuring a fair trial. Extensive review of court decisions. Offered concurrently with MMC 4201; graduate students will be assigned additional work.

MMC 5208 Media Ethics
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Introduces students to classical ethical philosophies; presents various ethical decision-making strategies; application of ethical models to information-gathering and dissemination strategies; helps students form an ethical framework for future positions of responsibility in mass media industries; introduces students to the case method of instruction. Offered concurrently with MMC 4203; graduate students will be assigned additional work.

MSL - MILITARY SCIENCE AND LEADERSHIP

MSL 1001 Foundations of Officership
Department: Military Science
1.0 sh (may not be repeated for credit)

Introduces freshmen-level students to issues and competencies that are central to a commissioned officer's responsibilities. These initial lessons establish a framework for understanding officership, leadership, and Army values.

Additionally, "life skills" including fitness and time management are addressed. Designed to give the student accurate insight into the Army profession and the officer's role within the Army. Material and supply fee will be assessed.

MSL 1002 Basic Leadership
Department: Military Science
1.0 sh (may not be repeated for credit)

Establishes foundation of basic leadership fundamentals such as problem solving, communications, briefings and effective writing, goal setting, techniques for improving listening and speaking skills, and an introduction to counseling. Material and supply fee will be assessed.

MSL 2101 Individual Leadership Studies
Department: Military Science
2.0 sh (may not be repeated for credit)

Designed to develop cadet's knowledge of self, self-confidence, and individual leadership skills. Cadets develop problem solving and critical thinking skills, and apply communication, feedback and conflict resolution skills through experiential learning activities. Material and supply fee will be assessed.

MSL 2102 Leadership and Teamwork
Department: Military Science
2.0 sh (may not be repeated for credit)

Study examines how to build successful teams, various methods for influencing action, effective communication in setting and achieving goals, the importance of timing the decision, creativity in the problem solving process, and obtaining team buy-in through immediate feedback. Material and supply fee will be assessed.

MSL 3201C Tactical Leadership
Department: Military Science
3.0 sh (may not be repeated for credit)
Prerequisite: MSL 1001, MSL 1002, MSL 2101, MSL 2102 or approved credit for military experience

Challenges students to study, practice, and evaluate adaptive leadership skills as presented with the demands of preparing for the ROTC Leadership Development and Assessment Course (LDAC). Challenging scenarios related to small unit tactical operations are used to develop self awareness and critical thinking skills. Students receive systematic and specific feedback on leadership abilities and begin to analyze and evaluate their own leadership values, attributes, skills, and actions. Material and Supply Fee will be assessed. Permission is required.

MSL 3202C Applied Leadership
Department: Military Science
3.0 sh (may not be repeated for credit)
Prerequisite: MSL 3201C

Uses increasingly intense situational leadership challenges to build student awareness and skills in leading tactical operations. Builds on the lessons learned in MSL 3201C by increasing the size and scope of the student's management responsibilities. Students also learn to communicate using military briefings and by writing military orders. Emphasis is placed in exploring, evaluating, and developing skills in decision making, persuading, and motivating team members. Material and Supply Fee will be assessed. Permission is required.

MSL 4301C Developmental Leadership
Department: Military Science
3.0 sh (may not be repeated for credit)
Prerequisite: MSL 3201C, MSL 3202C

Develops student proficiency in planning, executing, and assessing complex operations, functioning as a member of a staff and providing leadership, and performance feedback to underclassmen. Students are provided situational opportunities to assess risk, make ethical decisions, and provide coaching to fellow students. Permission is required. Material and Supply Fee will be assessed.

MSL 4302C Leadership in a Complex World
Department: Military Science
3.0 sh (may not be repeated for credit)
Prerequisite: MSL 4301C

Uses the Socratic model of reflective learning. Students analyze and evaluate the skills of others while simultaneously considering their own leadership skills. Students must complete a semester long Senior Leadership Project that requires them to plan, organize, collaborate, analyze, and demonstrate their leadership skills. Permission is required. Material and Supply Fee will be assessed.

MTG - MATHEMATICS: TOPOLOGY AND GEOMETRY

MTG 3203 Elementary Geometry
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

A basic course that presents a variety of geometry topics using hands-on strategies. Students will employ paper-pencil, straight edge and compass, and the computer to solve problems related to polygons, lines, angles, circles, area, volume, similarity, and the Pythagorean theorem. Recommended for elementary/middle level Education majors. Math majors may not use this course to fulfill major requirements.

MTG 3212 Modern Geometry
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MHF 3202

Axiomatic systems, non-Euclidean geometries, synthetic and algebraic projective geometry. Knowledge of high school geometry is required. (Gordon Rule Course: Theoretical Math)

MUE - MUSIC: EDUCATION

MUE 2040 Introduction to Music Teaching
Department: Music
2.0 sh (may not be repeated for credit)

A foundation course for potential music educators. An overview of the music education profession and its relationship to mainstream education issues; includes 10 hours of initial observations/participation in local school classrooms. Permission is required.

MUE 3210 Music for the Elementary School Teacher
Department: Music
2.0 sh (may not be repeated for credit)

Overview of music program for elementary children. Music methods and instructional materials for elementary music program through activities in singing, listening, playing and moving to music. No previous experience in music necessary. Material and supply fee will be assessed.

MUE 3311 Methods for the Elementary School Music Teacher
Department: Music
2.0 sh (may not be repeated for credit)

How to teach music in the elementary school. Includes "how to" instruction in teaching general music and how to begin and maintain an elementary choral program. For music majors only.

MUE 3312 Kodaly Method
Department: Music
3.0 sh (may not be repeated for credit)

Presents specific suggestions for teaching music to pre-K and elementary school students, based on the Kodaly Method as practiced in the United States, Canada and Hungary. Offering background material, general ideas, and specific techniques, will train students to utilize the Kodaly concepts effectively, even if they have not had previous experience with this speech.

MUE 3413 Chamber Music Coaching
Department: Music
1.0 sh (may be repeated for up to 4.0 sh of credit)

Chamber Music Coaching is a class to teach musicians how to prepare small ensembles for performance. The class includes participation in a chamber ensemble and instruction on coaching. It is required of all Music Ed majors and open to all other majors. Permission is required.

MUE 4330 Music in the Middle and Secondary Schools
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUE 2040, MUE 3311

The organization and administration of general, choral, and instrumental music in middle and high schools. Permission is required.

MUE 4343 String Methods and Materials
Department: Music
2.0 sh (may not be repeated for credit)

Designed to teach Music Ed majors how to begin and implement a string program in the school system. It includes strategies for teaching strings in group settings.

MUE 4411 Special Methods/Choral Techniques
Department: Music
2.0 sh (may not be repeated for credit)

Problems related to choral conducting with practical application of applicable choral techniques at all levels, elementary through high school. Includes choral and full score study, repertoire for various levels and observations in the public schools of choral music classes.

MUE 4451 Woodwind Instrument Methods and Materials
Department: Music
2.0 sh (may not be repeated for credit)

Woodwind instruments, playing techniques, reed making techniques, instrument maintenance, history methodology, pedagogy, literature for solo and ensemble experiences. Observations of representative public school programs of students planning to practice teach in band programs. Completion of sophomore year program requirements is required.

MUE 4465 Brass Instrument Methods and Materials
Department: Music
2.0 sh (may not be repeated for credit)

Brass instrument playing techniques, pedagogy, literature and materials. Required of students in music teaching track.

MUE 4475 Percussion Methods and Materials
Department: Music
2.0 sh (may not be repeated for credit)

Percussion instruments, playing techniques, history, methodology, pedagogy and literature for solo and ensemble experiences. Observations of representative public school programs required of students planning to practice teach in

band programs. Completion of sophomore year program requirements is required.

MUE 4493 Special Methods/Instrumental Techniques
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 4311

Problems in organization and administration of school instrumental groups at all levels, elementary through high school including marching bands, jazz bands, and band parent organizations. Advanced conducting of instrumental music; study of baton techniques and score analysis; practical applications to performance. Observation of music programs in public schools with emphasis on large and small performing ensembles.

MUE 4940 Music Education Internship
Department: Music
9.0 sh (may not be repeated for credit)

Music Education Internship is a semester long course allowing the student the opportunity to intern in the local school system under the supervision of an experienced music teacher in their area of study. The student is advised not to take other classes or pursue employment during the semester of internship. Internship assignments will be made by the Music Education Coordinator and will be limited to the Pensacola area. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

MUG - MUSIC: CONDUCTING

MUG 2101 Conducting
Department: Music
2.0 sh (may not be repeated for credit)

Applied conducting of vocal and instrumental music; basic concepts and practices of conducting of simple and complex meters; study of baton technique and score analysis; practical applications to performance.

MUH - MUSIC: HISTORY/MUSICOLOGY

MUH 2930 The Music Experience: Special Topics
Department: Music
3.0 sh (may be repeated for up to 9.0 sh of credit)

With a non-traditional and multi-cultural approach, specific topics in music are offered each semester. Topics vary each semester but include such areas as Latin American Music, Jazz, Eastern European Music, Music of the Far East, etc. Consult the current course bulletin for semester topic. (General Studies Course: HUM/FA) Meets Multicultural requirement.

MUH 3211 History of Western Music I: End of Ancient World Through 17th Century
Department: Music
3.0 sh (may not be repeated for credit)

First of two courses designed to increase student's understanding of history and literature of music. Music in Western Civilization from and of ancient world through 17th century. Three hours per week. Listening assignments in Music Listening Library. (Gordon Rule Course: Wrtg)

MUH 3212 History of Western Music II: 18th through 20th Centuries
Department: Music
3.0 sh (may not be repeated for credit)

Continuation of music history and literature sequence. Vocal and instrumental idioms of 18th-20th centuries emphasizing works of major composers. (Gordon Rule Course: Wrtg)

MUH 3662 Film Music
Department: Music
3.0 sh (may not be repeated for credit)

Surveys the importance of music in films, perhaps the most important entertainment and artistic medium of the 20th century. The material will progress from the silent film era to the present day. Students will learn the basics of filmmaking, the important basic musical elements (melody, rhythm, harmony, etc.) and how composers use them in film scoring.

MUH 3801 Jazz History
Department: Music
3.0 sh (may not be repeated for credit)

Will explore the rich heritage in Jazz from its roots in ragtime to the present day. Includes detailed studies of some of the great jazz musicians such as Duke Ellington, Count Basie, Ella Fitzgerald, Glen Miller, etc.

MUL - MUSIC: LITERATURE

MUL 2110 Music in Western Civilization
Department: Music
3.0 sh (may not be repeated for credit)

Musical perspectives within Western civilization. Designed to express the correlation of music, art, and literature with Western culture. Special emphases include the nature of music, both past and present, and music as reflection/expression of society's vital activities. (General Studies Course: HUM/FA). Credit cannot be earned in both MUH 2110 and MUL 2110.

MUL 3503 Symphonic and String Literature
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUH 3211 (or currently enrolled) and MUT 3611 (or currently enrolled)

Overview of Orchestral and small string ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3551 Band and Wind Literature
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUH 3211 (or currently enrolled) and MUT 3611 (or currently enrolled)

Overview of Symphonic Band and small chamber wind ensemble literature for all levels of students from beginning to college. Designed for the music teaching and performance major. Permission is required.

MUL 3602 Vocal Literature
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUH 3211 (or currently enrolled) and MUT 3611 (or currently enrolled)

Overview of solo vocal literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of solo song, its significant composers, forms and styles from the Renaissance to the present in the four major singing languages; French, German, Italian, and English. Permission is required.

MUL 3643 Choral Literature
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUH 3211 (or currently enrolled) and MUT 3611 (or currently enrolled)

Overview of choral literature for all levels of students from beginning to college. Designed for music teaching and performance majors. Explores the origins of the major compositions, composers, forms and styles from the Renaissance to the present. Permission is required.

MUN - MUSIC: ENSEMBLES

MUN 1310 The University of West Florida Singers
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Chorus of mixed voices preparing for performances throughout the year. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman/sophomore level only. Material and Supply Fee will be assessed.

MUN 1360 Madrigal Singers
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Select mixed choral ensemble performing acappella Renaissance music. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience is required. For freshman/sophomore level only. Material & Supply Fee will be assessed.

MUN 1370 Show Choir
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Select mixed choral ensemble combining choreographed dance and song. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral/dance experience required. For freshman/sophomore levels only.

MUN 1391 Gospel Choir
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Select mixed choral ensemble performing Gospel style music. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience required. For freshman/sophomore levels only.

MUN 2210 Symphony Orchestra
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

A college level orchestra which performs great literature of the past and present. Open to all majors with prior orchestral experience. Permission/Audition is required. Material and Supply Fee will be assessed.

MUN 3005 Small Brass Ensemble
Department: Music
1.0 sh (may be repeated for up to 8.0 sh of credit)

A quintet of brass instruments rehearsing and performing traditional brass quintet music.

MUN 3133 The University of West Florida Symphonic Band
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Group of wind and percussion instrumentalists. Open to all qualified students. Interested students should contact the music office. Previous instrumental experience required. Material and Supply Fee will be assessed.

MUN 3213 Advanced Symphony Orchestra
Department: Music
1.0 sh (may be repeated for up to 18.0 sh of credit)

Symphony Orchestra is a college level orchestra which performs great literature of the past and present. The orchestra is open to all majors with prior orchestral experience. Permission is required. Material and Supply Fee will be assessed.

MUN 3313 Advanced University Singers
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Chorus of mixed voices preparing for performances throughout the year. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience required. For junior and senior standing only. Material and Supply Fee will be assessed.

MUN 3363 Advanced Madrigal Singers
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Select mixed choral ensemble performing a cappella Renaissance music. Open to all students by audition. Rehearsals according to schedule. Previous choral experience required. For junior and senior levels only. Material and Supply Fee will be assessed.

MUN 3373 Advanced Show Choir
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Selected mixed choral ensemble combining choreographed dance and song. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral/dance experience required. For juniors and seniors only.

MUN 3393 Advanced Gospel Choir
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Select mixed choral ensemble performing Gospel style music. Open to all students by audition. Rehearsals according to schedule. Interested students should contact conductor prior to beginning of term. Previous choral experience required. For juniors and seniors only.

MUN 3483 Guitar Ensemble
Department: Music
1.0 sh (may be repeated for up to 10.0 sh of credit)

The UWF Guitar Ensemble is a performing instrumental organization which meets on a regular basis for rehearsals and performs often for community groups, college functions, and local schools and clubs. Required of guitar performance majors. Open to all majors. Permission required. Credit may be received in both MUN 3483 and MUN 3480 to a maximum of 10 credit hours only. Material and Supply Fee will be assessed.

MUN 3713 Jazz Combo
Department: Music
1.0 sh (may be repeated for up to 99.0 sh of credit)

Performance oriented small group of various sizes. Literature and instrumentation are based upon student and departmental needs. Material and Supply Fee will be assessed.

MUN 4411 String Quartet
Department: Music
1.0 sh (may not be repeated for credit)

An ensemble to explore the vast literature in the string quartet genre. May be expanded by an additional instrument for certain works. Material and Supply Fee will be assessed.

MUN 4463 Chamber Music
Department: Music
1.0 sh (may be repeated for up to 8.0 sh of credit)

Performance-oriented groups of various sizes. Literature and instrumentation are based upon student and departmental needs. Permission is required.

MUN 4714 The University of West Florida Jazz Band
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Standard jazz ensemble instrumentation. Opened to qualified students depending on needed instrumentation. Material and Supply Fee will be assessed.

MUN 4970 Senior Project
Department: Music
1.0 sh (may not be repeated for credit)

Final project demonstrating the student's accomplishments in his/her specialty. Limited to Church Music majors. The final project while generic in usage, can take the form of many diverse presentation, from a major musical composition to a choral concert featuring choirs from a sacred music student's internship church. It could also be represented by a major research paper in an aspect of musicology. Its purpose, therefore, is manifold, and its application unique to each student's special interest/concentration area. Senior level standing (completion of all coursework through the 3000 level) and department approval required prior to taking this course.

MUO - MUSIC: OPERA/MUSICAL THEATRE

MUO 1501 Opera Studio
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Study of the techniques of characterization, dramatic analysis, and ensembles singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a series of opera scenes recitals. Permission and audition required. Open to freshman/ sophomore levels only.

MUO 3503 Advanced Opera Studio
Department: Music
1.0 sh (may be repeated for up to 99.9 sh of credit)

Study of the techniques of characterization, dramatic analysis, and ensembles singing in English and foreign languages. Special emphasis is given to the study of scenes from the standard operatic repertoire which are presented before the public in a series of opera scenes recitals. Audition and permission required. Open to junior and senior levels only.

MUR - MUSIC: CHURCH

MUR 4940 Sacred Music Internship
Department: Music
3.0 sh (may not be repeated for credit)
Prerequisite: MUR 3105 and MUR 3106

Internship for students in Sacred Music specialization within the Music Performance track. Requires a semester long internship under the supervision of a faculty advisor and appropriate clergy at a sacred institution of the student's choice which must be approved by the department. The internship will provide practical experience within the structure of a strong music ministry in the region in order to equip the student for a career in Sacred Music. Permission is required.

MUS - MUSIC

MUS 2241 Diction for Singers I: Italian
Department: Music
1.0 sh (may not be repeated for credit)

Study of stage pronunciation and enunciation in Italian with comparisons made to the sound in English, and utilizing the International Phonetic Alphabet.

MUS 2360 Music Technology
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 2116

Designed to equip music students with the technological skills necessary and ongoing for the application of music software in all venues. Major emphasis on working knowledge of mainstream software and its applications in music composition, education and performance. Freshman and sophomore theory requirements are needed. Material and supply fee will be assessed.

MUS 3253 Diction for Singers II: French/German
Department: Music
1.0 sh (may not be repeated for credit)
Prerequisite: MUS 2241

Study of stage pronunciation and enunciation in French and German with comparisons made to the sounds in English, and utilizing the International Phonetic Alphabet. Student must be enrolled in applied voice either on the major or minor level.

MUT - MUSIC: THEORY

MUT 1001 Music Fundamentals
Department: Music
1.0 sh (may not be repeated for credit)

A basic course including notation, rhythm, major and minor scales, modes, sight-reading, key signatures, melody, triads, and ear training concepts. Meant for the non-music major or music majors needing preparatory work for Freshman Music Theory. No previous knowledge of music is required.

MUT 1111 Freshman Theory
Department: Music
3.0 sh (may not be repeated for credit)
Co-requisite: MUT 1271

Basic fundamentals of music theory, including meter and rhythm, tonic, dominant and sub dominant harmony, cadences, major and minor tonality, and inverted triads. Required of all students majoring in music; non- music majors must have departmental permission.

MUT 1112 Freshman Theory II
Department: Music
3.0 sh (may not be repeated for credit)
Prerequisite: MUT 1111/MUT 1271
Co-requisite: MUT 1272

Continuation of MUT 1111, including non-harmonic tones, secondary triads, principles of chord progressions, use of harmonic sequence, primary seventh chords and secondary dominants.

MUT 1271 Freshman Theory Lab
Department: Music
1.0 sh (may not be repeated for credit)
Co-requisite: MUT 1111

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 1272 Freshman Theory II Lab
Department: Music
1.0 sh (may not be repeated for credit)
Co-requisite: MUT 1112

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2116 Sophomore Theory
Department: Music
3.0 sh (may not be repeated for credit)
Prerequisite: MUT 1112/MUT 1272
Co-requisite: MUT 2276

Extensive harmonic analysis involving primary and secondary chords and including chromaticism and modulation; altered chords and their functions.

MUT 2117 Sophomore Theory II
Department: Music
3.0 sh (may not be repeated for credit)
Prerequisite: MUT 2116/MUT 2276
Co-requisite: MUT 2277

Continuation MUT 2116, including augmented sixth chords, the neopolitan sixth, and other chromatically altered chords, in addition to harmonic practices in the 20th Century.

MUT 2276 Sophomore Theory I Lab
Department: Music
1.0 sh (may not be repeated for credit)
Co-requisite: MUT 2116

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2277 Sophomore Theory II Lab
Department: Music
1.0 sh (may not be repeated for credit)
Co-requisite: MUT 2117

Ear-training, melodic and rhythmic dictation, sight-singing, and basic keyboard harmony. Computer lab time assigned as required.

MUT 2361 Jazz Fundamentals I
Department: Music
2.0 sh (may not be repeated for credit)

Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition, Chord type and related scales, chord progressions, memorization, and listening are covered. Open to all majors.

MUT 2362 Jazz Fundamentals II
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 2361

Continuation of Jazz Fundamentals I. Jazz Theory and the use of chords and voicings, chord/scale relationship and score analysis.

MUT 3401 Techniques of Counterpoint
Department: Music
2.0 sh (may not be repeated for credit)

Linear writing through species counterpoint and comparison with 16th and 18th century musical idioms. Two years of music theory required.

MUT 3611 Musical Structure and Style
Department: Music
2.0 sh (may not be repeated for credit)

Systematic analysis of 17th, 18th, 19th and 20th century music, with emphasis upon structural designs and stylistic trends. Two years of music theory required.

MUT 3671 Jazz Improvisation I
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 2362

Provides the musician basic theoretical knowledge and practice methods necessary for jazz improvisation and composition. Chord types and related scales, chord progressions, summarization, and listening are covered. Credit may not be received in both MUT 3671 and MUT 3641.

MUT 3672 Jazz Performance II
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 3671

Continuation of Jazz Performance I. Presentation of increasingly difficult harmonic structures.

MUT 4311 Instrumentation
Department: Music
2.0 sh (may not be repeated for credit)

Use of, and writing for, orchestral and band instruments; characteristics and capabilities of each. Instruments studied individually, small groups and as members of full ensemble. Two years of college theory required.

MUT 4643 Jazz Improvisation III
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 3672

Continuation of Jazz Improvisation II. Advanced techniques and practices of jazz improvisation.

MUT 4644 Jazz Improvisation IV
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MUT 4643

Continuation of Jazz Improvisation III and advanced skills and techniques of jazz improvisation.

MVB - APPLIED MUSIC: BRASSES

MVB 1311 Applied Music Trumpet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1312 Applied Music Horn
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1313 Applied Music Trombone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1314 Applied Music Euphonium
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 1315 Applied Music Tuba
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2321 Applied Music Trumpet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2322 Applied Music Horn
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2323 Applied Music Trombone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2324 Applied Music Euphonium
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2325 Applied Music Tuba
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 2421 Performance: Brass
Department: Music
2.0 sh (may be repeated for up to 6.0 sh of credit)

Individual instruction in applied music in brasses. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3331 Applied Music Trumpet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3332 Applied Music Horn
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3333 Applied Music Trombone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3334 Applied Music Euphonium
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3335 Applied Music Tuba
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 3970 Junior Recital - Brass
Department: Music
1.0 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVB 4341 Applied Music Trumpet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trumpet. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4342 Applied Music Horn
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in horn. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4343 Applied Music Trombone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in trombone. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4344 Applied Music Euphonium
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in euphonium. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4345 Applied Music Tuba
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in tuba. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVB 4971 Senior Recital - Brass
Department: Music
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education

majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVK - APPLIED MUSIC: KEYBOARD

MVK 1111 Class Piano I
Department: Music
1.0 sh (may be repeated for up to 8.0 sh of credit)

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam.

MVK 1112 Class Piano II
Department: Music
1.0 sh (may be repeated for up to 8.0 sh of credit)
Prerequisite: MVK 1111

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement/audition may substitute for prerequisite.

MVK 1115 Keyboard Skills
Department: Music
1.0 sh (may not be repeated for credit)

Development of functional skills at the keyboard. Open only to music majors.

MVK 1311 Applied Music Piano
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in piano. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1313 Applied Music Organ
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 1412 Applied Music Harpsichord
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the freshmen level standing. Open to others for credit if a music course or ensemble is taken concurrently and faulty schedules permit.

MVK 2121 Class Piano III
Department: Music
1.0 sh (may not be repeated for credit)
Prerequisite: MVK 1112

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares students for piano proficiency exam. Placement/audition may substitute for prerequisite.

MVK 2122 Class Piano IV
Department: Music
1.0 sh (may not be repeated for credit)
Prerequisite: MVK 2121

To equip the music major with functional piano skills which correlate with those skills accomplished in Music Theory. Prepares student for piano proficiency exam. Placement/audition may substitute for prerequisite.

MVK 2223 Applied Music Organ
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music organ. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2321 Performance: Keyboards
Department: Music
2.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2421 Applied Music Piano
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music piano. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 2422 Applied Music Harpsichord
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the sophomore level standing. Open to

others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3331 Performance: Keyboards
Department: Music
3.0 sh (may be repeated for up to 6.0 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3333 Applied Music Organ
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3431 Applied Music Piano
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music piano. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3432 Applied Music Harpsichord
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 3702 Accompanying Coaching Class
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MVK 1311 and MVK 2421

Designed to equip the pianist with basic skills in accompanying vocalists, instrumentalists, and choral groups. Emphasis on listening techniques related to vocal, instrumental, and choral literature. Two years of applied piano and permission is required.

MVK 3970 Junior Recital - Keyboards
Department: Music
1.0 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVK 4341 Performance: Keyboards
Department: Music
3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in keyboards. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4343 Applied Music Organ
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in organ. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4441 Applied Music Piano
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music piano. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4442 Applied Music Harpsichord
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied harpsichord. Primarily for music majors of the senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVK 4641 Piano Pedagogy
Department: Music
2.0 sh (may not be repeated for credit)

Comparison of various published piano methods; application of these methods and other techniques of teaching beginning student to most advanced level. Required of all piano majors.

MVK 4704 Accompanying: Instrumental Literature
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MVK 1311 and MVK 2421

Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for instruments involving a piano accompaniment. Survey of literature for woodwinds, brass, strings, percussion, chamber music, and two pianos with emphasis on performance

techniques. Two years of applied piano and permission is required.

MVK 4705 Accompanying Vocal Literature
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MVK 1311 and MVK 2421

Designed to equip pianists specializing in accompanying with a functional and practical knowledge of literature for voice involving a piano accompaniment. Survey of literature, both chamber and orchestral, for soprano, mezzo soprano, alto, tenor, baritone, and bass voice types with emphasis on performance techniques. Two years of applied piano and permission is required.

MVK 4932 Piano Interpretation
Department: Music
2.0 sh (may not be repeated for credit)

Study and comparison of interpretations of piano music by means of written treatises, recorded examples and demonstration. Required of all piano majors. Junior level standing and permission is required.

MVK 4942 Accompanying Internship I
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MVK 1311 and MVK 2421

An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Two years of applied piano and permission is required.

MVK 4943 Accompanying Internship II
Department: Music
2.0 sh (may not be repeated for credit)
Prerequisite: MVK 4942

An internship with the music department. The students will serve as the departmental accompanist. The students will accompany during applied lessons of varying instruments and voices and will accompany recitals. Permission is required.

MVK 4971 Senior Recital - Keyboards
Department: Music
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVK 5451 Applied Piano
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: MVK 4441

Individual instruction in applied music in piano. Primarily for music majors of Graduate level standing. Permission is required.

MVP - APPLIED MUSIC: PERCUSSION

MVP 1311 Applied Music Percussion
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2321 Applied Music Percussion
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 2421 Performance: Percussion
Department: Music
2.0 sh (may be repeated for up to 6.0 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3331 Applied Music Percussion
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 3970 Junior Recital - Percussion
Department: Music
1.0 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of

a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVP 4341 Applied Music Percussion
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in percussion. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVP 4971 Senior Recital - Percussion
Department: Music
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to a scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVS - APPLIED MUSIC: STRINGS

MVS 1311 Applied Music Violin
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1312 Applied Music Viola
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1313 Applied Music Cello
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1314 Applied Music Bass
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1316 Applied Music Guitar
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 1811 Violin Class
Department: Music
1.0 sh (may not be repeated for credit)

Small group instruction in violin. Students will be given instruction on the violin in a small group setting. May not be taken for credit by Music majors. Permission is required.

MVS 2321 Applied Music Violin
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2322 Applied Music Viola
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2323 Applied Music Cello
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2324 Applied Music Bass
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 2326 Applied Music Guitar
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3331 Applied Music Violin
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3332 Applied Music Viola
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3333 Applied Music Cello
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3334 Applied Music Bass
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3336 Applied Music Guitar
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 3970 Junior Recital - Strings
Department: Music
1.0 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVS 4341 Applied Music Violin
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in violin. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4342 Applied Music Viola
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in viola. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4343 Applied Music Cello
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in cello. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4344 Applied Music Bass
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bass. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4346 Applied Music Guitar
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in guitar. Primarily for music majors of senior-level standing. Open to others for

credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVS 4971 Senior Recital - Strings
Department: Music
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission required.

MVS 5451 Applied Viola
Department: Music
3.0 sh (may not be repeated for credit)

Individual instruction on the viola on the graduate level. Lesson times to be determined in consultation with the instructor.

MVV - APPLIED MUSIC: VOICE

MVV 1311 Applied Music Voice
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2321 Performance: Voice
Department: Music
2.0 sh (may be repeated for up to 6.0 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 2421 Applied Music Voice
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music vocal. Primarily for majors of sophomore level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3331 Performance: Voice
Department: Music
3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3431 Applied Music Voice
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music voice. Primarily for majors of junior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 3970 Junior Recital - Voice
Department: Music
1.0 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVV 4341 Performance: Voice
Department: Music
3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in voice. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4441 Applied Music Voice
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music vocal. Primarily for majors of senior level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVV 4640 Vocal Pedagogy
Department: Music
2.0 sh (may not be repeated for credit)

Explores strategies of teaching voice to students of all ages and levels.

MVV 4971 Senior Recital - Voice
Department: Music
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight

weeks prior to scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

MVW - APPLIED MUSIC: WOODWINDS

MVW 1311 Applied Music Flute
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1312 Applied Music Oboe
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1313 Applied Music Clarinet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1314 Applied Music Bassoon
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 1315 Applied Music Saxophone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of freshman-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2321 Applied Music Flute
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2322 Applied Music Oboe
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2323 Applied Music Clarinet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2324 Applied Music Bassoon
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2325 Applied Music Saxophone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 2421 Performance: Woodwinds
Department: Music
2.0 sh (may be repeated for up to 6.0 sh of credit)

Individual instruction in applied music in woodwinds. Primarily for music majors of sophomore-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3331 Applied Music Flute
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of junior-level standing. Open to others for

credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3332 Applied Music Oboe
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3333 Applied Music Clarinet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3334 Applied Music Bassoon
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3335 Applied Music Saxophone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of junior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 3970 Junior Recital - Woodwinds
Department: Music
1.0 sh (may not be repeated for credit)

Prior to graduation all students seeking a performance specialization music degree must present at least one-half of a public recital. Permission to give recital is secured from the student's applied teacher at least eight weeks prior to scheduled recital date. Two semesters of 3000 level applied lessons (junior level) and permission is required. Performance majors only.

MVW 4341 Applied Music Flute
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in flute. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4342 Applied Music Oboe
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in oboe. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4343 Applied Music Clarinet
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in clarinet. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4344 Applied Music Bassoon
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in bassoon. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4345 Applied Music Saxophone
Department: Music
2.0-3.0 sh (may be repeated for up to 9.0 sh of credit)

Individual instruction in applied music in saxophone. Primarily for music majors of senior-level standing. Open to others for credit if a music course or ensemble is taken concurrently and faculty schedules permit.

MVW 4971 Senior Recital - Woodwinds
Department: Music
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Prior to graduation all students seeking a music degree must present a complete public recital. Permission to give a recital is secured from students' applied teacher at least eight weeks prior to a scheduled recital date. Performance majors will be required to register for 3 credit hours and Education majors will be required to register for 1 credit hour. Two semesters of 4000 level applied music (senior level) and permission is required.

N NGR - NURSING: GRADUATE

NGR 5131 Cultural Factors in Health and Illness
Department: Nursing
3.0 sh (may not be repeated for credit)

Influence of culture on health and health care beliefs and practices. Institutional health care policies which conflict with ethnic or cultural beliefs will be discussed. Selected content and learning experiences will guide students who interact with clients in a variety of settings. Satisfaction of all General Studies requirements; completion of majority of upper-division degree requirements; or equivalent. Offered concurrently with NSP 4185; graduate students will be assigned additional work. Credit may not be received in both NGR 5131 and NGR 5934.

NGR 5167 Holistic Healthcare
Department: Nursing
3.0 sh (may not be repeated for credit)

This on-line course explores the role of selected complementary and alternative health practices and promotions in the healthcare arena. Emphasis will be placed on ways to promote healing and optimum health in the individual. Offered concurrently with NUR 4177; graduate students will be assigned additional work. Credit may not be received in both NGR 5167 and NGR 5095.

NGR 5250 Advanced Gerontological Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)

An on-line graduate nursing course designed to meet the health care challenge presented by the increasing population of older individuals. Provides students with an opportunity to expand their knowledge about the unique needs of older clients. Examines older clients from a holistic approach incorporating physical, spiritual, social and cultural aspects of aging. Permission is required.

NGR 5290 Men's Health
Department: Nursing
3.0 sh (may not be repeated for credit)

Through an interdisciplinary approach, addresses men's health and perceptions of masculinity, differences in men's health care, differences and disparities related to race, ethnicity, and social class. Topics include wellness, cardiovascular disease, breast and prostate cancer, sexually transmitted disease (including HIV), aging, violence, depression, infertility, erectile dysfunction, and impotence. Includes historical cases and epidemiological differences among groups. Offered concurrently with NSP 4435. Students registered for graduate credit have different criteria and values for assignments. Senior or graduate status is required.

NGR 6636 Health Promotion and Primary Prevention in Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)

The theoretical foundation for the promotion of health and prevention of disease in the individual, family, local/global community, and the environment. Permission is required.

NGR 6700 Healthcare Theories, Trends and Issues in Nursing and Society
Department: Nursing
3.0 sh (may not be repeated for credit)

Explores theories, issues and trends within nursing, and the healthcare services. Examines policy influences, development and analysis from a historical, multidisciplinary and global perspective. Emphasis on the legislative process and the advanced nursing role perspective. Permission is required.

NGR 6701 Nursing Educational Leadership
Department: Nursing
3.0 sh (may not be repeated for credit)

Builds on the undergraduate leadership content and is designed to give leadership knowledge and skills to nurse educators in colleges and universities and in staff development. Emphasizes the need for nurse educators to be an integral part of the educational leadership team. Permission is required.

NGR 6713 Nursing Curriculum, Course Design and Management
Department: Nursing
3.0 sh (may not be repeated for credit)

Provides a theoretical basis for understanding the principles of curriculum design and evaluation as applied to programs of higher education and clinical education in nursing. Trends and issues in nursing, health care, and society are explored as they affect the process of curriculum development. Opportunities to practice the elements of curriculum building including the role of philosophy/mission statements, framework development (both conceptual and theoretical), program objectives/outcomes, content mapping, course sequencing, clinical practice, and evaluation will be provided. Emphasizes course, program, and department domains in curriculum and teaching/learning theory for diverse populations. Permission is required.

NGR 6722 Nursing Management of Human and Financial Resources
Department: Nursing
3.0 sh (may not be repeated for credit)

Focuses on human resource management and financial/budgetary resource management. Explores human resource policies, employee selection, performance appraisal, workload management, compensation, budgeting process/development, competency, and employee training and development. Addresses government regulations,

Medicare, Medicaid, DRGs, capitation, purchasing, mergers, acquisitions, and productivity. Permission is required.

NGR 6723 Nursing Leadership Development
Department: Nursing
3.0 sh (may not be repeated for credit)

Builds on the undergraduate leadership content in the development of the advanced nursing leadership role. Explores complex theories and concepts in nursing administration. Focus is on nursing administrators/leaders making strategic changes within healthcare. Permission is required.

NGR 6724 Health Care Planning and Management in Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)

Focuses on management, strategic planning, forecasting, managing projects, tools for capital budgeting and asset management, managerial decision-making skills, case management approaches and targeted markets. Additionally, the impact of external factors on complex healthcare systems will be explored. Permission is required.

NGR 6740 Advanced Nursing Practice Role
Department: Nursing
3.0 sh (may not be repeated for credit)

Focuses on the role of the Advanced Nursing Practice nurse. Integrates nursing and other discipline theories and issues relevant to clinical practice, administration, education, and research issues. Includes theoretical analysis, application, and synthesis in the development of an individual model of advanced nursing practice for the student. Permission is required.

NGR 6756 Advanced Clinical Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)

Health care delivery with a focus on nursing case management and managed care. The advanced clinical nurse is viewed as a partner with a variety of disciplines in the provision of quality nursing care in a variety of settings. Permission is required.

NGR 6800 Nursing Research I
Department: Nursing
3.0 sh (may not be repeated for credit)

Explores the philosophical foundations of ways of knowing in nursing. A variety of research methods or approaches for studying relevant clinical problems in nursing and for evaluating practice outcomes are presented. The interrelationships of practice, theory, knowledge, and research are analyzed. Legal and ethical issues related to health care research will be explored. Students learn skills to evaluate the credibility of reported research, determine its usefulness in guiding advanced nursing practice, and to develop a research proposal. Permission is required.

NGR 6833 Nursing Research II: Nursing Administration
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NGR 6800

Capstone course offers the student the opportunity to evaluate research findings, identify nursing administrative practice question(s), design, and implement a professional project in their area of interest suitable for presentation and/or publication. Permission is required.

NGR 6833L Nursing Administration Practicum
Department: Nursing
3.0 sh (may not be repeated for credit)

Practicum for students to synthesize knowledge learned within the nursing administration program as they transition into a new executive level role. Applies theory to the real-world. Emphasis is on application of leadership/management theory, effective supervision, problem solving, organizational theory and structure, personnel and operations management, and communication. Experiences are designed and arranged by the student and approved by the faculty to provide executive level exposure to nursing administration operations and local business health policies and procedures. Permission is required.

NGR 6834 Nursing Research II: Nursing Education
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NGR 6800

Capstone course offers the student the opportunity to evaluate research findings, identify nursing education question(s), design, and implement a professional project in their area of interest suitable for presentation and/or publication. Permission is required.

NGR 6834L Nursing Education Practicum
Department: Nursing
3.0 sh (may not be repeated for credit)

Students engage in a variety of teaching/learning experiences in their area of educational interest (classroom or clinical). Students will plan, develop, teach, reflect and evaluate their varied practicum experiences. Permission is required.

NUR - NURSING: GENERIC UNDERGRADUATE

NUR 3067 Health Assessment and Promotion in Diverse Populations

Department: Nursing
4.0 sh (may not be repeated for credit)

For the RN-BSN student to enhance their knowledge and skills in the interviewing and physical assessment techniques necessary to systematically and accurately assess the health status of diverse and vulnerable clients. Cultural and sociological influences on health behavior and health assessment, maintenance, and preventative health interventions and education will be explored. Permission is required.

NUR 3081 Transition to Professional Nursing Practice
Department: Nursing
4.0 sh (may not be repeated for credit)

A transition experience into baccalaureate nursing. The philosophy and roles of the baccalaureate nurse in the context of contemporary and future nursing practice. Focuses on the impact of ethical, legal, political, and social issues that influence health care delivery, providing a forum for the exploration and evaluation of concerns germane to contemporary nursing. Permission is required.

NUR 3116 Concepts for Nursing Practice
Department: Nursing
3.0 sh (may not be repeated for credit)

The nursing process as the methodology for professional nursing practice provides the basis for exploring particular concepts and theories. It includes systems theory, change theory, health-illness continuum, high level wellness and various nursing models with emphasis on man's uniqueness as an adaptive being. Prerequisite for all courses having a clinical component. Permission is required.

NUR 3145 Pharmacology
Department: Nursing
3.0 sh (may not be repeated for credit)

Provides basic pharmacokinetics and physiologic information, including actions, side effects, and interactions of drugs that are widely used. Focuses on the principles and concepts of pharmacology and related nursing practices. Permission is required.

NUR 3535 Psychiatric/Mental Health Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3736, NUR 3736L

Introduces students to theory and skills of psychiatric/mental health nursing and focuses on restoration, maintenance, and prevention with individuals experiencing acute and chronic mental health disorders. Permission is required.

NUR 3535L Psychiatric/Mental Health Nursing Clinical Lab
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3535, NUR 3736, NUR 3736L

Clinical component to NUR 3535 providing opportunity to apply nursing therapeutics for in-patient care in mental health and psychiatric settings. Graded on satisfactory/unsatisfactory basis only. Permission is required.

NUR 3678 Nursing Care of Vulnerable Populations
Department: Nursing
3.0 sh (may not be repeated for credit)

Course entails how to care for the vulnerable, the relevance of nursing theories to vulnerable populations, nursing research showing the kinds of phenomena nurses study, and learning to work with and advocate for vulnerable individuals. Meets Multicultural requirement.

NUR 3735 Foundations of Medical Surgical Nursing
Department: Nursing
8.0 sh (may not be repeated for credit)
Co-requisite: NUR 3116, NUR 3145, NUR 3735L

Presents adults as holistic beings by identifying health patterns and family relationships. Pathoshysiology is integrated in discussion of specific diseases and disorders. The identification and application of principles and concepts related to selected psychomotor skills used in nursing practice is included. Students use concepts from nursing, humanities, and bio-psycho-social sciences to understand human responses to common actual and potential health problems and as a basis for nursing practice. Credit may not be received in both NUR 3735 and NUR 3215.

NUR 3735L Foundations of Medical Surgical Nursing Clinical Lab
Department: Nursing
4.0 sh (may not be repeated for credit)

Clinical laboratory provides opportunity for application on interpersonal and psychomotor skills to nursing care of adult and pediatric clients and their families in a structured health care setting. The nursing process is utilized to assess, plan, implement, and evaluate nursing care provided for human responses to actual or potential health problems and needs based on principles from the biologic, physiologic, and behavioral sciences, humanities, and nursing. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3735L and NUR 3215L.

NUR 3736 Medical Surgical Nursing II
Department: Nursing
5.0 sh (may not be repeated for credit)

Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3535, NUR 3535L

Presents adults and children as holistic beings by identifying patterns and family relationships. Pathoshysiology is integrated in discussion of specific diseases and disorders. Students use concepts from nursing, humanities, and bio-psycho-social sciences to understand human responses to common actual and potential complex health problems and as a basis from nursing practice. Permission is required. Credit may not be received in both NUR 3736 and NUR 3216.

NUR 3736L Medical Surgical Nursing II Clinical Laboratory
Department: Nursing
5.0 sh (may not be repeated for credit)
Prerequisite: NUR 3735, NUR 3735L
Co-requisite: NUR 3736L, NUR 3535, NUR 3535L

Provides the opportunity for application of critical thinking processes in promotion of health, prevention of illness and provision of holistic nursing care for adults, children, and their families in a variety of structured health care settings. The nursing process is used to assess, diagnose, and treat human responses to actual or potential acute and chronic health problems based on principles from the biologic, physiologic, behavioral sciences, humanities, and nursing. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required. Credit may not be received in both NUR 3736L and NUR 3216L.

NUR 3837 Health Care Issues
Department: Nursing
2.0 sh (may not be repeated for credit)

Focuses on the nursing profession and current major issues and problems that concern it, and provides a forum for the exploration and evaluation of concerns germane to contemporary nursing. Social forces influencing changes in the nursing profession are analyzed in terms of historical antecedents and their current manifestations. Permission is required.

NUR 4165 Nursing Research
Department: Nursing
3.0 sh (may not be repeated for credit)

Introduction to the stages of the research process from conceptualization to dissemination of results. Designed to assist the nurse to appreciate the contributions of research to improvement of nursing practice, it will provide a necessary base in rudiments of research and an incentive to explore the research potential in the clinical setting. All statewide common prerequisites for Baccalaureate Nursing must be completed prior to taking this course. Permission is required.

NUR 4177 Holistic Healthcare
Department: Nursing
3.0 sh (may not be repeated for credit)

This on-line course explores the role of selected complementary and alternative health practices and promotions in the healthcare arena. Emphasis will be placed on ways to promote healing and optimum health in the individual. Offered concurrently with NGR 5167; graduate students will be assigned additional work. Meets Multicultural requirement.

NUR 4257 Medical-Surgical Nursing III
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NUR 4615, NUR 4615L, NUR 4455, NUR 4455L, NUR 4355, NUR 4355L
Co-requisite: NUR 4257L, NUR 4827, NUR 4945L

Theory and skills in caring for individuals and families experiencing acute, unstable, or life threatening problems. Critical thinking skills and nursing interventions developed. Permission is required.

NUR 4257L Medical-Surgical Nursing III Clinical Laboratory
Department: Nursing
4.0 sh (may not be repeated for credit)
Prerequisite: NUR 4615, NUR 4615L, NUR 4455, NUR 4455L, NUR 4355, NUR 4355L
Co-requisite: NUR 4257, NUR 4827, NUR 4945L

Clinical component of NUR 4257 provides opportunity to apply nursing therapeutics for the acutely ill client in critical care settings. Graded on satisfactory/unsatisfactory basis only. Permission is required. Material and supply fee will be assessed.

NUR 4286 Gerontological Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)

An on-line nursing course designed to meet the health care challenge presented by the increasing population of the elderly. Provides students with an opportunity to expand their knowledge about the unique needs of older clients. Presents a holistic approach incorporating physical, spiritual, emotional, social and cultural aspects of aging. Permission is required.

NUR 4455 Maternal-Newborn Nursing
Department: Nursing
2.0 sh (may not be repeated for credit)

Nursing care practices and patient needs of the childbearing family from preconception through 28th day of life. Continues application of general systems theory. Emphasis on the family and promotion of physical, social and emotional well being. Permission is required.

NUR 4455L Maternal-Newborn Nursing Clinical Laboratory

Department: Nursing
2.0 sh (may not be repeated for credit)

Clinical component of NUR 4455, provides opportunity to apply nursing therapeutics for family care in childbearing and newborn settings. Promotes identification and utilization of nursing interventions to prevent illness and promote health by using critical thinking and problem solving. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

NUR 4615 Family and Community Health Nursing
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: RN to BSN: NUR 3067 and NUR 3067L; Generic: NUR 3736 and NUR 3736L
Co-requisite: RN to BSN: NUR 4615L; Generic: NUR 4635L

Prevention of disease, environmental sanitation, and crises intervention to help the client, family, and community achieve their maximum health potential. Meets Multicultural requirement.

NUR 4615L Family and Community Health Nursing Laboratory
Department: Nursing
3.0 sh (may not be repeated for credit)
Co-requisite: NUR 4615

Application of the concepts of health maintenance and promotion is afforded the student in primary, secondary and tertiary care setting.

NUR 4636 Community Health Nursing
Department: Nursing
4.0 sh (may not be repeated for credit)
Prerequisite: NUR 3067, NUR 3081, NUR 4165

Introduces and facilitates the conceptualization of family, population groups, and community as units of care. Concepts include epidemiology, health policy, and risk reduction, health maintenance, and promotion of high-level wellness to individuals, families and groups of diverse and vulnerable populations throughout the lifespan. Variables such as culture and environment, which influences health behaviors of families and the community, are considered in planning and evaluating the outcomes of nursing intervention. Permission is required.

NUR 4827 Nursing Management and Leadership
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NUR 4615, NUR 4615L, NUR 4165, NUR 4455, NUR 4455L, NUR 4355, NUR 4355L
Co-requisite: (NUR 4836L and NUR 3837) or (NUR 4257, NUR 4257L, NUR 4945L, and NUR 3837)

Group process provides the forum to study leadership, collaboration and coordination in health-care settings. This serves as the Capstone course for the Nursing Program. Permission is required.

NUR 4828 Nursing Systems Management
Department: Nursing
4.0 sh (may not be repeated for credit)
Prerequisite: NUR 3067, NUR 3081, NUR 4165

Development of management skills for the professional nurse role by applying the principles of leadership theories and styles, management, and regulatory agencies that define boundaries of nursing practice in health care organizations. Collaboration, conflict management, and effective communication skills through the use of group process, and teaching/learning strategies that emphasize the leadership management roles of the nurse. The role of the professional nurse in efficient patient care management in complex health care settings. Permission is required.

NUR 4940 Senior Concentration in Nursing
Department: Nursing
1.0 sh (may not be repeated for credit)
Prerequisite: NUR 4165, NUR 3067, NUR 3081
Co-requisite: NUR 4828, NUR 4636, NUR 4286

The student, with faculty supervision and directed guidelines, develops and plans for the goals, objectives, and activities that structure the Practicum experience. The student will be involved in family/community and organizational based areas of practice for in-depth clinical experience designed to improve consumer health. Includes the research and critique of current literature and integration of current knowledge about a specific problem. Permission is required.

NUR 4945L Nursing Management and Leadership Clinical Laboratory
Department: Nursing
3.0 sh (may not be repeated for credit)
Prerequisite: NUR 4615, NUR 4455, NUR 4455L, NUR 4355, NUR 4355L

Clinical component to NUR 4827 providing opportunity to apply nursing leadership and management strategies to health care settings. Permission is required.

NUR 4949 Professional Practicum
Department: Nursing
6.0 sh (may not be repeated for credit)
Prerequisite: Final semester of program

The major assignment is an evidence-based project that grows out of the student's interest related to specific student populations, professional nursing roles, and/or health care settings. Permission is required.

O OCB - BIOLOGICAL OCEANOGRAPHY

OCB 4104 Marine Field Ecology
Department: Biology
2.0 sh (may not be repeated for credit)

A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 5106; graduate students will be assigned additional work.

OCB 5106 Marine Field Ecology
Department: Biology
2.0 sh (may not be repeated for credit)

A hands-on introduction to sea-going oceanography. Permission is required. Offered concurrently with OCB 4104; graduate students will be assigned additional work.

OCC - CHEMICAL OCEANOGRAPHY

OCC 4002 Chemical Oceanography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2046, CHM 2046L

The chemical composition of the oceans and the physical, chemical, and biological processes governing this composition in the past and present. Topics covered include cycling of carbon, nitrogen, phosphorus, silicon, and oxygen, and processes of primary production, export production, remineralization, digenesis, and air-sea gas exchange.

OCC 4414 Global Biogeochemical Cycles
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2046, CHM 2046L

The biogeochemical cycles of water, carbon, nitrogen, and sulfur; the atmosphere and oceans as reservoirs and reaction media; the fate of natural and artificial sources of carbon, nitrogen, and sulfur compounds; the interactions among the major biogeochemical cycles and global change; anthropogenic perturbation of the global carbon cycle and climate, greenhouse gases, acid rain and ozone depletion.

OCE - GENERAL OCEANOGRAPHY

OCE 3008 Oceanography
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010, ZOO 1010, CHM 2045, CHM 2046, MAC 1105, and PHY 2053.

Intermediate discussion of marine environments from a multi-disciplinary approach. Includes the major chemical, geographical, and physical characteristics and processes of the oceans and the way they influence the biological components found in different types of ecosystems. Credit may not be received in both OCE 3008 and OCE 3001.

OCE 4265 Remote Sensing of Oceans
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: EVR 4023

Provides a foundation in cartographic and remote sensing principles, and practical experience with remote sensing applications as they relate to the world's oceans. It examines basic concepts of electromagnetic radiation and its interaction with earth. Remotely sensed images from sensors such as SeaWiFS, AVHRR, and Topex/Poseidon will be discussed. Exercises will cover ocean color, sea surface temperature altimetry, and sea ice.

OCG - GEOLOGICAL OCEANOGRAPHY

OCG 4050 Geological Oceanography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: (GEO 1200 and GEO 1200L) or (GLY 2010 and GLY 2010L) or (BSC 2311 and BSC 2311L)

The study of the morphology, formation, and evolution of ocean basins; of the sediments in coastal, shelf, and pelagic environments; and biogeochemical cycling. Includes paleoceanography and the sedimentary history of the ocean basins. Credit may not be receive in both OCG 4050 and OCG 4002.

OCP - PHYSICAL OCEANOGRAPHY

OCP 4002 Physical Oceanography
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311, and either PHY 2048, PHY 2048L or PHY 2053, PHY 2053L.

An introduction to concepts in physical oceanography. Topics include: observation of temperature, salinity, density, and currents; wind- driven and geostrophic currents/ density-driven circulation; upwelling; surface waves, tides, and internal waves; air/sea interaction; and waves and coastal processes.

OCP 4550 Global Climate Change: Oceanic/Atmospheric Interactions
Department: Environmental Studies
3.0 sh (may not be repeated for credit)
Prerequisite: BSC 2311, BSC 2311L, GEO 3250, GEO 3250L

The role of the world ocean on climate in the present, past, and future. Causes and effects (like sea level change) of natural climate variability on time scales of millions to a few years. Interaction of ocean and atmosphere (greenhouse

gases, currents, and wind). Discussions of impact of human activity and of future climate scenarios. Credit may not be received in both OCP 4550 and OCE 4008.

ORI - ORAL INTERPRETATION

ORI 4130 Oral Interpretation
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: SPC 2608

Study in the theories and practice of human communication through oral performance. The medium of oral interpretation is the process that defines the literature. The performance process from the discovery of the text to the oral performance is covered. Theoretical components of performance criticism are emphasized. Primary focus is the analysis and preparation for oral presentation of prose, poetry and dramatic literature for public audiences.

P PAD - PUBLIC ADMINISTRATION

PAD 3003 Public Administration in American Society
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Effective administration of government agencies, nonprofit organizations and other civil institutions is necessary if American democracy is to thrive. Addresses that challenge by examining the administration of governmental and nonprofit organizations using both traditional concepts (e.g. administrative theory, civil service systems, human relations movement) and more contemporary concepts (the new public administration, reinventing government).

PAD 5107 Modern Public Organization Theory
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Analysis of contemporary theories of organizations applicable to individual, group and system levels. Public organizations treated generically with examples and applications primarily drawn from the public and nonprofit sectors. May not be taken for credit by students having credit for MAN 5204 or SOP 5617.

PAD 5146 The Nonprofit Profession
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Overview of the field of nonprofit organizations from a management perspective. Human resource management (including working with volunteers and professionals), public relations, board relations, daily operations, financial matters, and ethics.

PAD 5386 Leadership, Community, and Change
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

An action research based course that imparts the knowledge and competencies required for the promotion of community change based upon techniques for diagnosis of community needs, evaluation of related community resources, planning intervention based on needs and resources, and implementation and evaluation of program results, all in the context of best leadership practices.

PAD 5434 Leadership
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Leadership styles and techniques of people in all levels of government- executive, legislative and administrative and in the community in general. Will attempt to help students assess their own strengths and weaknesses as leaders and determine a strategy for that development.

PAD 5605 Administrative Law
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Explores the legal foundations and administration of public service administrative law. Focuses on the development of the American administrative state; legislative and judicial controls over agency discretionary power; the limits of judicial review; the legality of administrative action; agency rule-making and administrative discretion of public managers; and the liability of public managers for unlawful acts.

PAD 5635 Government Contract Law
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Government contract law and ethics. Major provisions of the federal Procurement Integrity Act and general federal acquisition contract principles. Authority of contracting officers, delegation of contracting officer authority, and impact of delegation. Procedures for formation of government contracts and contract protest, government property fundamentals, government contract funding and fiscal matters, labor, social, economic, environmental concerns and fraud. Legal aspects of inspection, acceptance, delivery, warranties, changes, terminations and contract disputes.

PAD 5855 Acquisition Administration
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Working knowledge of government contracting policies and procedures needed to evaluate and analyze methods of solicitation and awarding of federal government contracts in the most advantageous manner for the government client.

PAD 5862 Government Cost and Pricing Analysis
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Government Cost and Pricing policies and procedures needed to prepare or evaluate and analyze cost proposals and costs incurred in Federal Government Contracts. Components of government cost and price analysis in federal contracting as defined by the Defense Contracting Auditing Agency (DCAA). Contracts from the contractor's and the federal Contracting Officer's perspective. Indirect costs and cost allocation bases. Methods utilized by the federal government to establish estimates of fair and competitive prices for goods and services.

PAD 5863 Defense Acquisition Mission Support Contracting
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Policies, procedures, and methods utilized in planning or evaluating contracting actions for Department of Defense contracts from both contractor's and the federal Contracting Officer's views. Plan and evaluate contracting actions from the original identification of need to the final contract close out procedures. Sound business decisions when contemplating the purchase of goods and services.

PAD 6041 Public Service Ethics
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Focuses on ethical dilemmas and concerns faced by public managers arising from their exercise of administrative discretionary power. Explores contemporary public service ethical dilemmas by examining teleological and deontological schools of thought applied to case studies and ethics literature. Provides maps and tools to make moral experiences more explicit and consistent.

PAD 6053 Public Administration Professional
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Scope and nature of field of public administration; development of public administration; politics of bureaucracy; dynamics of policy making and implementation.

PAD 6137 Project Leadership and Administration
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Conceptualizing and developing project plans incorporating realistic problems to solve, resources, execution strategies, criteria for successful completion, and assessment strategies. Regulation mechanisms such as appropriate goal setting, managing timelines, developing flexible back-up plans, identification of individual and group processes. Focuses on the need for team skills, the responsibility of team members, managing conflict, problem solving, team member assessment. Cases will be examined, multiple projects planned individually and in teams, and various planning models will be examined. Pert and Gantt charting will be covered.

PAD 6227 Public Budgeting
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Detailed study of various budgeting systems and the political processes and environment that impact upon them. Extensive practical work in budget preparation.

PAD 6275 Political Economy of Public Administration
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Consideration of the American political economy including: markets, politics and democracy; market failure and bureaucratic failure; relationships between government and business; public choice theory; privatization and contracting out.

PAD 6335 Strategic Management for Public and Nonprofit Organizations
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

An examination of the rationale and methods of strategic management applied to the planning processes of public and nonprofit organizations.

PAD 6417 Public Service Human Resource Management
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

An examination of the theories, practices and issues central to contemporary human resource management in public service and nonprofit organizations. This course focuses on leadership issues in public service HRM.

PAD 6425 Public Service Conflict Management and Resolution
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Focuses on managing public disputes and emphasizes the significance of praxis. Explores constructive alternative dispute resolution (ADR) processes and procedures to legalistic, adversarial methods of dispute resolution in the public and nonprofit sectors. Knowledge and skills developed are those needed to analyze complex conflict and dispute situations, shape appropriate processes to involve the right parties, constructively negotiate settlements, select mediators and facilitators, and design dispute resolution programs. Emphasizes conflict management and resolution leadership.

PAD 6701 Quantitative Applications in Public Administration
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: PAD 6706

Review of the quantitative techniques employed in the field of public administration. The techniques involve: data analysis, techniques, decision-making routines and projection methods necessary for rational decision-making in the public sector. Permission is required.

PAD 6706 Public Administration Research Methods
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Basic ideas of scientific research and how it is used in public administration. Prepares the student as both a consumer and a potential producer of research.

PAD 6864 Intermediate Contracting and Contract Administration
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Government contracting and administration at the intermediate level. Intermediate level aspects of the federal acquisition process ranging from initiating the acquisition process through protests. Intermediate federal contract administration from initiating contract administration through claims.

PAD 6940 Career in Public Service: Internship
Department: COP Graduate Education
3.0 sh (may be repeated for up to 6.0 sh of credit)

Students placed in internship with a government agency or other public service institution for one semester. A seminar on internship experience, including formal reports is required. 3 hour career experience. Graded on a satisfactory/unsatisfactory basis only. One half of MOA program completed-12 sh must be core courses and permission is required.

PAD 6946 Acquisition Administration Internship
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Internship position with a government agency or a private government contractor in a role closely related to acquisition administration and/or contract administration. Seminar on the internship experience, formal written report and journal of work experiences. Regular contact between the responsible faculty, student and internship supervisor. Ten forty-hour work weeks (or the equivalent). Graded on a Satisfactory/Unsatisfactory basis only.

PAD 6947 Record of Public Service
Department: COP Graduate Education
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

For those candidates having a substantial record of public sector employment who petition for waiver of internship. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

PAD 7980 Dissertation Research Design Seminar
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Reviews research design concepts in the context of the proposed dissertation topic. Students work with the instructor of record (and involve the doctoral committee chair) to write a comprehensive problem statement, produce a comprehensive literature review, and develop a solid methodology for the study. Development of a preliminary Human Subjects (IRB) application is another product. 40sh of doctoral course work is required prior to enrolling. Permission is required.

PAD 8980 Dissertation
Department: COP Graduate Education
1.0-6.0 sh (may be repeated for up to 18.0 sh of credit)

Major individual research in an area of significant public administration interest; designed specifically for candidates in the EDD Curriculum and Instruction program-Administrative Studies/Public Administration specialization. Reflects intensive Social Science/Public Administration research produced by the student with guidance from the major professor and doctoral committee members. Admission to candidacy and permission is required. Graded on a satisfactory/unsatisfactory basis only

PCB - PROCESS BIOLOGY: CELL/MOLECULAR/ECOLOGY/GENETICS/PHYSIOLOGY

PCB 2131 Cell Biology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or ZOO 1010

Introductory cell biology. Comprehensive study of prokaryotic and eukaryotic cells and their organelles with emphasis on structure and function and their relationships. Two terms of general chemistry are required prior to taking this course.

PCB 2131L Cell Biology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Co-requisite: PCB 2131

Basic experimental techniques in cell biology. Material and supply fee will be assessed.

PCB 3063 Genetics
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: PCB 2131, PCB 2131L; and either ZOO 1010 OR BOT 2010
Co-requisite: PCB 3063L

Origin, development and principles of modern genetics and genetic manipulations. Material and supply fee will be assessed for corresponding lab. Two academic terms of introductory biology are required prior to taking this course.

PCB 3253 Developmental Biology
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: PCB 3253L

Development from molecular, cellular and multicellular aspect; information flow, morphogenesis and differentiation in multicellular animals and plants. Material and supply fee will be assessed for corresponding lab.

PCB 3663 Human Genetics
Department: Biology
3.0 sh (may not be repeated for credit)

Application of modern genetic knowledge to human genetics.

PCB 4043 Ecology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: STA 2023; both CHM 2045/L and CHM 2046/L; and two of BOT 2010/L, PCB 2131/L, and ZOO 1010/L.
Co-requisite: PCB 4043L

Interactions of microorganisms, plants, and animals with abiotic and biotic factors in the environment are examined as determinants of the distribution and abundance of species, population dynamics and ecosystem function. General concepts and methodologies of ecological science are discussed at individual, population, community and ecosystem levels of organization. Material and supply fee will be assessed for corresponding lab.

PCB 4048 Estuarine Ecology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM2045L, CHM 2046, CHM 2046L, CHM 2210, CHM 2210L, PCB 4043
Co-requisite: PCB 4048L

Physical, chemical, and geological/sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 5445; graduate students will be assigned additional work.

PCB 4233 Immunology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: PCB 4233L

Basic principles of immunology to include humeral and cell-mediated immune mechanisms, the complement system and the inflammatory response. Offered concurrently with PCB 5235; graduate students will be assigned additional work.

PCB 4233L Immunology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Co-requisite: PCB 4233

Selected experiments in immunology. Special permission required. Permission granted on the basis of fulfilling prerequisite or co-requisite. Material and supply fee will be assessed. Offered concurrently with PCB 5235L; graduate students will be assigned additional work.

PCB 4364 Marine Ecological Physiology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, STA 2023, and PCB 4043
Co-requisite: PCB 4364L

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 5319; graduate students will be assigned additional work.

PCB 4364L Marine Ecological Physiology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, STA 2023, and PCB 4043
Co-requisite: PCB 4364

Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and supply fee will be assessed. Offered concurrently with PCB 5319L; graduate students will be assigned additional work.

PCB 4374 Tropical Ecology
Department: Biology
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Five week course culminating in an eight day expedition to Costa Rica to study coral reefs, mangrove forests, as well as tropical dry, rain and cloud forests. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. A series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna and to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 5344; graduate students will be assigned additional work. Permission is required.

PCB 4442 Wetlands Ecology
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: PCB 4442L

Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 5446; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fees will be assessed for corresponding lab.

PCB 4482 Quantitative Ecology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: PCB 4043 and STA 2023

Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations, and communities. Methods of estimating abundance, survival, habitat selection, species diversity and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 5480; graduate students will be assigned additional work.

PCB 4521 Molecular Genetics
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033, PCB 3063
Co-requisite: PCB 4521L

The purpose is to introduce students with a sound background in genetics and biochemistry to advanced molecular genetic techniques with applications to many aspects of biological science. Students will gain a detailed understanding of the function and biochemistry of DNA and RNA, how this material can be modified, and how structure/control mechanisms can be manipulated to serve the needs of the researcher or application. A lecture and laboratory course designed for those interested in pursuing advanced degrees in molecular biology or a technical career in biotechnology. Material and supply fee will be assessed for corresponding lab. Offered concurrently with PCB 5526; graduate students will be assigned additional work.

PCB 4522 Genetic Engineering
Department: Biology
3.0 sh (may not be repeated for credit)

Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 5525; graduate students will be assigned additional work.

PCB 4524 Molecular Biology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033, BCH 3033L
Co-requisite: PCB 4524L

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 5527; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 4673 Principles of Evolution
Department: Biology
3.0 sh (may not be repeated for credit)

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 5675; graduate students will be assigned additional work.

PCB 4703 Human Physiology
Department: Biology
3.0 sh (may not be repeated for credit)

Physiological mechanisms of various organ systems in the human body. Emphasis on transport mechanisms, renal function, hormones, respiration, cardiac function, muscle physiology, digestion, and immune systems.

PCB 4723 Comparative Animal Physiology I
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: PCB 4723L

General and comparative animal physiology. Complex structures, phenomena and concepts involved in regulation of a variety of physiological mechanisms. Material and Supply Fee will be assessed for corresponding lab. Offered concurrently with PCB 5727; graduate students will be assigned additional work.

PCB 4922 Biology Seminar
Department: Biology
1.0 sh (may not be repeated for credit)

Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research instructors and agencies. Offered concurrently with PCB 5924; graduate students will be assigned additional work.

PCB 4970 Interdisciplinary Senior Research Project
Department: Biology
3.0 sh (may not be repeated for credit)

The student will choose one faculty member from computer sciences and one faculty member from biology to serve as the research project committee. In close association with the committee, the student will design a research problem that generates biological data and utilizes a variety of programming skills, appropriate software and other computational skills in the design, data generation and data analysis steps, as well as in the construction of the formal report on the project. The primary purpose is to clearly demonstrate that the student is capable of integrating the knowledge they have acquired in biology with that which they have obtained in computer science. Senior status in the ITT program and permission is required. Graded on satisfactory/unsatisfactory basis only.

PCB 5235 Immunology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: PCB 5235L

Basic principles of immunology to include humeral and cell-mediated immune mechanisms, the complement system and the inflammatory response. Offered concurrently with PCB 4233; graduate students will be assigned additional work.

PCB 5235L Immunology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Co-requisite: PCB 5235

Selected experiments in immunology. Permission is required. Permission granted on the basis of fulfilling prerequisite or co-requisite. Material and supply fee will be assessed. Offered concurrently with PCB 4233L; graduate students will be assigned additional work.

PCB 5319 Marine Ecological Physiology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, STA 2023, and PCB 4043.
Co-requisite: PCB 5319L

Interdisciplinary approach to understanding and interpreting interrelationships between adaptation and environment in marine animals. Examines life history strategies and tactics unique to organisms found living in or around marine habitats. Specific behavioral and physiological responses of marine animals exposed to feeding, metabolic, oxic, osmotic and thermal challenges are discussed. Offered concurrently with PCB 4364; graduate students will be assigned additional work.

PCB 5319L Marine Ecological Physiology Laboratory
Department: Biology
1.0 sh (may not be repeated for credit)
Prerequisite: CHM 2210, STA 2023, and PCB 4043.
Co-requisite: PCB 5319

Field techniques for quantifying physiological adaptations of marine organisms to their abiotic environment. Students will characterize marine habitats and assess feeding, metabolic, oxic, thermal and osmoregulatory strategies used by vertebrates and invertebrates living in these habitats. Material and supply fee will be assessed. Offered concurrently with PCB 4364L; graduate students will be assigned additional work.

PCB 5344 Tropical Ecology
Department: Biology
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Five week course culminating in an eight day expedition to Costa Rica to study coral reefs, mangrove forests, as well as tropical dry, rain and cloud forests. Students will attend a lecture series discussing selected topics in tropical ecology prior to the expedition. A series of slides featuring plants and animals common to the area will be shown to familiarize students with the local flora and fauna and to give them a greater appreciation for tropical ecology. Offered concurrently with PCB 4374; graduate students will be assigned additional work. Permission is required.

PCB 5445 Estuarine Ecology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045-2046, CHM 2210 (may be substituted with CHM 2200 or 3120), PCB 4043, one upper level field course each in botany (e.g., BOT 3601 or 4404) and Zoology (e.g. ZOO 4254 or 4304).
Co-requisite: PCB 5445L

Physical, chemical, and geological/sedimentological characteristics of estuaries are discussed with respect to the structure and functional ecology of water column and benthic biological communities and their interactions. Physical and biogeochemical factors that influence and/or regulate the

distributions and abundance of estuarine species are emphasized. Human interactions with these systems will also be discussed. Offered concurrently with PCB 4048; graduate students will be assigned additional work.

PCB 5446 Wetlands Ecology
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: PCB 5446L

Ecosystem approach to the study of wetlands emphasizing the interactions between soil, plants and hydrology in forming different types of wetland systems, especially in the southeastern United States. Plant and animal adaptations to wetland environments, influences on these communities by human activities, and issues related to wetland restoration. Offered concurrently with PCB 4442; graduate students will be required to read 3 peer-reviewed papers, and present an overview of these papers to the entire class. Material and supply fee will be assessed for corresponding lab.

PCB 5480 Quantitative Ecology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: PCB 4043 and STA 2023

Presents the basic tools necessary to collect data to explore the patterns and relationships of biotic communities. Emphasizes how to take raw data and derive estimates of a variety of parameters related to the ecology of individual organisms, populations and communities. Methods of estimating abundance, survival, habitat selection, species delivery and community similarity are presented in detail. An introduction to sampling design and statistics is also included. Offered concurrently with PCB 4482; graduate students will be assigned additional work.

PCB 5525 Genetic Engineering
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: MCB 3020, PCB 3063, and BCH 3033

Principles of molecular cloning, including the methods involved in constructing, characterizing and manipulating recombinant molecules. The application of recombinant DNA technology to basic problems in agriculture, biology, genetics and medicine. Offered concurrently with PCB 4522, graduate students will be assigned additional work.

PCB 5526 Molecular Genetics
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033, PCB 3063
Co-requisite: PCB 5526L

The purpose is to introduce students with a sound background in Genetics and Biochemistry to advanced molecular genetic techniques with applications to many aspects of biological science. Students will gain a detailed understanding of the function and biochemistry of DNA and RNA, how this material can be modified and how structure/control mechanisms can be manipulated to serve the needs of the researcher or application. A lecture and laboratory course designed for those interested in pursuing advanced degrees in molecular biology or a technical career in biotechnology. Material and supply fee will be assessed for corresponding lab. Offered concurrently with PCB 4521; graduate students will be assigned additional work.

PCB 5527 Molecular Biology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: BCH 3033
Co-requisite: PCB 5527L

Study of the molecular level of the principles governing DNA replication, repair, RNA transcription, and protein synthesis in both prokaryotes and eukaryotes. Surveys molecular processing, and recombinant DNA technology. Offered concurrently with PCB 4524; graduate students are required to write a research paper and present it to the class. Material and supply fee will be assessed to corresponding lab. A grade of "C" or higher is required in prerequisite courses.

PCB 5675 Principles of Evolution
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: BOT 2010 or ZOO 1010 and PCB 2131.

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. Offered concurrently with PCB 4673; graduate students will be assigned additional work.

PCB 5727 Comparative Animal Physiology I
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: PCB 5727L (Comparative Animal Physiology I Lab)

General and comparative animal physiology. Complex structures, phenomena and concepts involved in regulation of a variety of physiological mechanisms. Material and Supply Fee will be assessed to corresponding lab (pending approval). Offered concurrently with PCB 4723; graduate students will be assigned additional work.

PCB 5924 Biology Seminar
Department: Biology
1.0 sh (may not be repeated for credit)

Seminar topics from a diverse spectrum of current biological research will be presented by a variety of speakers from UWF, national and international academic research

instructors and agencies. Offered concurrently with PCB 4922; graduate students will be assigned additional work.

PCB 6074 Experimental Design in Biology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4173

Covers experimental design in relation to the analysis of biological data. Topics include sources of error, variation in biological systems, replication and pseudoreplication, controls, multiplicity, sample size and randomization. The physical layout of biological experiments in the field and laboratory will be discussed in relation to basic parametric data analysis techniques.

PCB 6943 Internship in Biotechnology
Department: Biology
3.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

An internship in biotechnology or related industry. Students will work on a problem related to management, development or administration of a program in biotechnology or to research in biotechnology. Prior completion of the graduate level core courses in the MS Biology/Biotechnology Fast Track is required. Internship is mandatory for students in the non-thesis Fast Track program. A written report on the internship experience will be presented orally to a committee selected by the student's course supervisor. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

PCB 6971 Thesis
Department: Biology
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

PCO - PSYCHOLOGY OF COUNSELING

PCO 2202 Introduction to General Counseling Techniques
Department: Psychology
3.0 sh (may not be repeated for credit)

Develops basic skills and techniques needed for a person to be effective in the helping process and to learn about the qualities and conditions necessary for counseling.

PCO 4242 Introduction to Group Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)

Theory, research and practice of group processes. Provides an opportunity for participation or observation of group counseling.

PCO 4310 Intervention in Addictions
Department: Psychology
3.0 sh (may not be repeated for credit)

Models of addictive behaviors and implications for assessment and treatment of addiction. Emphasis primarily on alcohol and drug abuse, with information on smoking and obesity included.

PCO 6204 Pre-Practicum: Techniques of Counseling and Psychotherapy
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: CLP 5166, PCO 6216
Co-requisite: PCO 6206C, PCO 6246

Experientially-based with an emphasis on counseling and psychotherapeutic techniques and behavior, including the identification and acquisition of broad communication and relationship-building skills, particular counseling techniques, and the development of a counseling response repertoire. Students also develop an understanding of the interaction between theory and technique as it applies to clinical practice, as well as develop their case conceptualization and case management skills. Simulated supervised counseling experience is provided through the use of micro-counseling and role-playing. Provides the opportunity to practice actual counseling skills and techniques prior to the practicum and internship experiences. The practicum placement process is included.

PCO 6206C Ethical and Professional Issues in Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PCO 6216

In depth review of critical issues in the practice of mental health counseling, including the professional organizations and ethical standards for psychologists and counselors, legal and professional requirements for practicing in the profession, and the rights of clients. Topics include standards of preparation, certifications and licensing, and the role identity and professional obligations of mental health counselors. Relevant issues for school counselors will be addressed.

PCO 6216 Theories of Individual Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: (Either CLP 3144 or PPE 4003) or by permission of the instructor

Overview of major contemporary theoretical approaches to individual counseling and psychotherapy.

PCO 6246 Theories of Group Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PCO 2202 or PCO 6216

Overview of major contemporary theoretical approaches to group counseling and psychotherapy.

PCO 6278 Multicultural Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)

Addresses the similarities and differences among various culturally diverse groups, and informs counselors of the characteristics and processes necessary to become a culturally skilled counselor.

PCO 6312 Substance Abuse Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: CLP 5166

Examines the misuse of alcohol and other drugs, and how they affect biological, psychological, social and familial spheres of functioning. Designed to convey to counselors-in-training and community professionals the most essential information about licit and illicit drugs, provide an overview of the prominent theoretical models of addiction, and explore various clinical methods for assessing and treating substance use disorders. Courses in Theories of Individual, Group, or Family Counseling are recommended.

PCO 6315 Assessment in Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: CLP 5166

Practical training in the process of clinical assessment in mental health counseling. Includes an introduction to the science of clinical assessment with a focus on the use of assessment techniques such as interviewing and psychological testing, in a professionally and ethically responsible manner. Includes an experiential component in which the student will develop beginning skills in the use of clinical assessment techniques, under supervision. Permission is required. Material and Supply Fee will be assessed.

PCO 6946 Practicum in Counseling
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: CLP 5166, PCO 6206C, PCO 6216

Placement of the student in a local mental health agency for 8-10 hours each week. The emphasis of this experience is on development of clinical skills in interviewing, assessment, and counseling of individuals, groups, and families. Students will complete a minimum of 150 hours of field placement of which at least 40 will be in direct client contact. There is a weekly class meeting and individual supervision with the instructor in addition to the clinical activities and supervision at the practicum site. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PCO 6948 Internship in Counseling
Department: Psychology
1.0-6.0 sh (may be repeated for up to 9.0 sh of credit)

The student functions as a staff member and participates in the full range of clinical and professional activities of the internship site under supervision. A weekly university based seminar will accompany field placement. Students in the 60sh M.A. Licensure Option must register for more than one term (total of 6sh required) and will complete a minimum of 850 hours of field placement, of which at least 240 will be in direct client contact. An internship paper and portfolio are required. Students in the 45sh M.A. degree program must complete 3sh with at least 300 hours of field placement. Graded on a satisfactory/unsatisfactory basis only. Permission is required based on requirements stated in the Counseling Track Policy Manual.

PEL - PHYSICAL EDUCATION ACTIVITIES: OBJECT CENTERED, LAND

PEL 1341 Beginning Tennis
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to introduce students to basic tennis strokes; rules; etiquette; terminology; basic tactics; strategy; and equipment.

PEM - PHYSICAL EDUCATION ACTIVITIES: PERFORMANCE CENTERED, LAND

PEM 1XXX Beginning T'ai Chi (Pending)
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Introduces the 24-Step Yang Style T'ai Chi form. Focuses on the internal and external elements of the form, the most recent research on the health benefits of T'ai Chi, and the history of this exercise.

PEM 1XX1 Beginning T'ai Chi
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Introduces the 24-Step Yang Style T'ai Chi form. Focuses on the internal and external elements of the form, the most recent research on the health benefits of T'ai Chi, and the history of this exercise

PEM 1116 Body Shaping I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to introduce body shaping exercises to students to help improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. This

entry level class will cover yoga, Pilates, cardio karate, water aerobics, step aerobics, and basic training. Students will exercise using various types of equipment.

PEM 1120 Cardio Weightlifting and Endurance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Emphasizes the development of cardiovascular and muscular endurance through the use of free weights, weight machines, and cardio exercises. The exercises are based on the principle of circuit training through different exercise stations.

PEM 1121 Yoga I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to train the student in basic Hatha yoga techniques. An ancient method of exercise as well as a method of spiritual meditation. the physical yoga training will occur during the class periods and there will be a learning module on-line for the student to complete. Each class will be a significant physical challenge. Students of all athletic abilities are encouraged to take the course.

PEM 1122 Yoga II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEM 1121

Designed to further the education and practice of Hatha Yoga. Advanced postures will be explored and the healing significance to each will be explained. Class meetings will be more strenuous than the Yoga I meetings. Strength moves and postures will be emphasized. Participants can enter Yoga II after completion of Yoga I or with the permission of the instructor. Students will be encouraged to develop their own potential abilities and style.

PEM 1131 Weight Training
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)

Demonstrates and allows students to experience the basics of weight training. Students will be taught proper weight training techniques and apply them while training in class as well as other aspects of fitness and exercise. Graded on a Satisfactory/Unsatisfactory basis only.

PEM 1141 Aerobic Conditioning
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)

Designed to introduce aerobics to students to help improve overall physical fitness, improve cardio respiratory endurance, and help reduce body fat. Topics will include a wide variety of beginning level high- impact and low-impact aerobic activities designed to tax both the beginner and advanced student.

PEM 1162 Latin Cardio Groove
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A Latin dance class that focuses on building fitness through the blending of Latin dance styles from the Merengue to Salsa with fitness techniques. The class is designed for non-dancers, dancers, and athletes.

PEM 1165 Hula Fit I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A beginning level hula dance class that focuses on building fitness through the use of Hawaiian and Tahitian Hula dance training and fitness techniques. Designed for non-dancers, dancers, and athletes.

PEM 1320 Rock Climbing
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)

An introductory rock climbing skill development course focusing on rock climbing equipment, knots and rope systems, belays, anchors, and top rope climbing.

PEM 1321 Low Ropes Course
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)

Designed to introduce students to the essential skills required to facilitate experiential education activities on a rope challenge course.

PEM 1322 High Ropes Course
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)

Designed to introduce students to the essential technical skills required to safely conduct experiential education activities on a challenge low and high ropes course.

PEM 1331 Outdoor Adventure I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to introduce outdoor activities to students to help improve overall physical fitness. This entry level will cover outdoor activities including backpacking, rock climbing, ropes course (certified), orienteering, and geocaching. Students will exercise using various types of equipment. Material and supply fee will be assessed.

PEM 2114 Cycle Fit
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will participate in indoor cycling group workouts. Students will learn the proper use of cycle bikes for a safe and effective workout. Students will learn basic instruction techniques that will lay the foundation for learning to become a Cycle Fit instructor.

PEM 2117 Body Shaping II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEM 1116

Designed to continue the body shaping exercises introduced in Body Shaping I at a more intense level. Will allow students to improve overall physical fitness, improve cardiorespiratory endurance, and help reduce body fat. Covers advanced exercises in the areas of: yoga, Pilates, cardio karate, water aerobics, step aerobics, and basic training. Students will exercise using various types of equipment.

PEM 2123 Yoga III
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEM 1121 and PEM 1122

Designed to encourage independent yogic exploration. It is also the "extreme yoga" course and students must have successfully completed Yoga I or II class prior to this class. The student will work with the instructor as an assistant for a Yoga I or Yoga II class. Six times during the term the student will take a class from a local yoga instructor approved by the course instructor. The student will be responsible for the class fee incurred at the different studios. The cost is nominal ($12 per class). The student will learn to develop his/her own style after experiencing a variety of yogic styles and settings with qualified instructors. Also a way for the student to encounter the spiritual ideas of yoga as they are expressed by diverse practitioners.

PEM 2124 Yoga IV
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to train the student to be comfortable enough with yoga to train on his/her own or, if desired, to become an instructor. The student will develop her/his own style of yoga and complete his/her physical and intellectual foundation for further yogic studies. The instructor will help the student to become a certified yoga instructor if that is desired.

PEM 2126 Yoga Fitness
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will learn information on the background of yoga, the many different types of yoga and the health benefits of participating in yoga fitness. The class includes a physical component in which students will participate in yoga fitness classes, designed to slowly progress through various sequences and poses of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a yoga fitness instructor.

PEM 2127 Pilates
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will participate in Pilates classes to condition the core muscles of the body. The classes are designed to slowly progress through various exercises of increasing difficulty as the semester advances. In addition, the students will learn basic instruction techniques that will lay the foundation for learning to become a Pilates instructor.

PEM 2128 Pilates II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Continuation of the exercises of Joseph H. Pilates. Expanding on the principles of movement within the Pilates environment from intermediate to advanced mat exercises with the use of small props.

PEM 2176 Kick Boxing
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will learn about the basic components of kickboxing and the health benefits of participating in kickboxing classes. Students will participate in kickboxing classes, designed to slowly progress through various punches, kicks, and other combinations of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a kickboxing instructor.

PEM 2177 Boxing Fitness
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will participate in Boxing Fitness group workouts, designed to slowly progress through various punches, kicks and combinations of increasing difficulty as the semester advances. Students will understand how to use boxing equipment properly to provide for a safe and effective workout. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a Boxing Fitness instructor.

PEM 2178 Cycle Boxing
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will participate in Cycle Box classes that will include a combination workout of group cycling and boxing. Students will understand how to use boxing and cycle equipment properly to provide for a safe and effective workout. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a Cycle Box instructor.

PEM 2179 Boot Camp Fitness
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will participate in Boot Camp classes that will include aerobic exercise and anaerobic drills to improve endurance, strength, power, and agility. Classes will be designed to slowly progress through various exercises and drills of increasing difficulty as the semester advances. In addition, students will learn basic instruction techniques that will lay the foundation for learning to become a Boot Camp instructor.

PEM 2332 Outdoor Adventure II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEM 1331

Designed to help students improve the skills they learned in Outdoor Adventure I and to improve physical fitness. Will cover advanced outdoor activities including: backpacking, rock climbing, ropes course (certified), orienteering, and geocaching. Students will exercise using various types of equipment. Material and supply fee will be assessed.

PEM 2405 Rape Aggression Defense (R.A.D.) Self-Defense for Women
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Introduction to basic self defense skills, escape and avoidance strategies, offensive and defensive postures, defensive techniques and simulated attacks. Includes an exploration of violence prevention and victim abuse community services. Basic fitness principles including strength, flexibility and cardiovascular fitness will be addressed. Intended for women only.

PEM 2444 Shotokan Karate
Department: Health, Leisure, & Exercise Science
1.0 sh (may be repeated for up to 3.0 sh of credit)

Examines the background and methods involved in karate and emphasizes traditional Japanese style known as Shotokan Karate. Offers the student instruction that will enable him/her to participate in regional, national, and international collegiate events including tournaments, special training clinics, weekend camps, and interaction with Shotokan Karate clubs and organizations at other universities. While learning self defense techniques through physical practice and training, the student will learn the significance of mental discipline and health benefits involved in the practice of Shotokan Karate. Graded on satisfactory/unsatisfactory basis only.

PEM 2445 Shotokan Karate II
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PEM 2444

Advanced instruction in the traditional Japanese style of Shotokan Karate for students who have basic knowledge and experience with this style of Karate. Opportunities are provided for students to build on their experience and skill levels. Graded on satisfactory/ unsatisfactory basis only.

PEM 2446 Shotokan Karate III
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PEM 2445

Advanced instruction at the third level for students who have beginning skills in Shotokan Karate. Opportunities will be provided to allow students to continue to build their skill levels and prepare for introductory competitive activities. Graded on satisfactory/unsatisfactory basis only.

PEN - PHYSICAL EDUCATION ACTIVITIES: WATER, SNOW, ICE

PEN 1121 Swimming (Beginning)
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)

Equips students with basic water safety skills and knowledge to make them reasonable safe while in, on, or about the water. Introduction to swimming on front and back; additional training through skills designed to improve stamina and basic coordination. Other water sports will be introduced to add to the students' water experience. Graded on a Satisfactory/Unsatisfactory basis only.

PEN 1122 Intermediate Swimming
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PEN 1121

The primary objective is to develop the student's confidence by improving water safety skills and increase stroke endurance for greater distances. Students will be introduced to all the competitive strokes and basics of turning on the wall. Graded on satisfactory/unsatisfactory basis only.

PEN 1170 Water Aerobics I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Offers water exercise to develop physical fitness. In addition, offers instruction in a variety of water exercises and vigorous activities to develop cardiovascular and muscular endurance, flexibility and the promotion of body composition management.

PEN 1240 Beach Sports I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to introduce beach sports to students in order to help improve overall physical fitness. This entry level class will cover sports including surfing, body boarding, windsurfing, ocean kayaking, beach volleyball, surf fishing, and jet skiing. Students will exercise using various types of beach equipment. Material and supply fee will be assessed.

PEN 2113 Water Safety
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

The purpose of the American Red Cross Water Safety Instructor course is to train instructor candidates to teach courses in the American Red Cross Swimming and Water Safety program by developing their understanding of how to use the course materials, how to conduct training sessions, and how to evaluate participants.

PEN 2114 Lifeguard Training
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Acquaint the students with the skills and knowledge necessary for the maintenance of a safe environment in aquatic settings. Red Cross certification is available. Aquatic skills are required. Material and Supply fee will be assessed (pending approval).

PEN 2123 Fitness Swimming
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to refine strokes so the student can swim with more ease, efficiency, power, and smoothness over greater distances. Ideal for the swimmer who may wish to enter competition or achieve a higher fitness level.

PEN 2171 Water Aerobics II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEN 1170

Teaches advanced water exercises to develop physical fitness. In addition, offers instruction in a variety of advanced water exercises and vigorous activities to develop cardiovascular and muscular endurance, flexibility and the promotion of body composition management.

PEN 2241 Beach Sports II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEN 1240

Designed to teach intermediate skills of various beach sports to students to help improve overall physical fitness. Will focus on teaching advanced levels of the following beach sports: surfing, body boarding, windsurfing, ocean kayaking, beach volleyball, surf fishing, and jet skiing. Student will exercise using various types of beach equipment. Material and supply fee will be assessed.

PEO - PHYSICAL EDUCATION ACTIVITIES: OBJECT CENTERED, LAND

PEO 2031 Analysis of Individual Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Practicum in analytical techniques of skills involved in individual sports. Emphasis is on analysis, instructional design, and application of skills in a teaching situation.

PEO 3001 Sports Officiating
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides students insight into and experiences related to the world and profession of sports officiating. Principles, practices, responsibilities, techniques, and methods employed in sports officiating will be presented. Opportunities for employment in sports officiating will be discussed. Students will be required to observe officiating techniques and will be assigned officiating responsibilities in local sports programs.

PEO 3008 Sports Officiating II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PEO 3001

Provides students an advanced look into sports and experiences related to the world and profession of sports officiating. Advanced principles, practices, responsibilities, techniques, and methods employed in sports officiating will be presented. Opportunities for employment in sports officiating will be discussed. Students will be required to observe officiating techniques and will be assigned officiating responsibilities in local sports programs. Credit may not be received in both PEO 3008 and PEO 3004

PEP - PHYSICAL EDUCATION ACTIVITIES: PERFORMANCE CENTERED, LAND

PEP 2500 Non-Traditional Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed for potential physical education teachers and sports administrators. Emphasis on development and understanding of skills in the most popular non-traditional sports in physical education and sports programs.

PEP 4113 Aging and Physical Performance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of the physiological, psychological and social factors which affect movement capabilities, the assessment of physical performance, and the development of activity programs for the aging. Offered concurrently with PEP 5118; graduate students will be assigned additional work.

PEP 5118 Aging and Physical Performance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides an overview of the aging process and its effects on physical performance, and the major effects of regular exercise on the aging process. Emphasis will be placed on the understanding of physiological, psychological, and social factors affecting movement capabilities, the assessment of physical performance, and the development of activity programs for the aging population. Offered concurrently with PEP 4113; graduate students will be assigned additional work.

PET - PHYSICAL EDUCATION THEORY

PET 2604 Basic Care and Prevention Principles of Athletic Training
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to provide an overview of proper roles and responsibilities of the National Athletic Trainers' Association Board of Certification (NATABOC), Certified Athletic Trainer (ATC) in providing quality health care to the physically active individual, as well as other health care professionals that comprise the sports medicine team. In addition, specific skills related to athletic health care will be addressed. A grade of "B" or better is required. Credit may not be earned in both PET 2603 and PET 2604.

PET 2622 Advanced Prevention and Care of Injuries in Health, Leisure, and Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Fitness and health, prevention and care of injuries, and restoration and rehabilitation of the injured. Standard first aid, anatomy and physiology are required.

PET 2824 Analysis of Team Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed for potential physical education teachers and sports administrators. Emphasis is on development and understanding of skills in the most popular team sports in physical education and sports programs. Students are expected to participate in the class by practicing and learning sports skills in a logical and progressive manner. Credit may not be earned in both PET 2060 and PET 2824.

PET 3020 Foundations of Physical Education and Sport Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

For physical education and sport management majors. Designed to acquaint them with the knowledge and understanding related to the development of physical education and sport and its significance to modern society.

PET 3283 Sports Media
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Examines the role media plays in contemporary sports, the relationship between sports and sports media, and how these two entities influence the public's perception of sport as a growing industry. Examines the many professional careers associated with sports media including sports information, public/media relations, journalism, and broadcasting.

PET 3330 Functional Kinesiology
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: BSC 1085, BSC 1085L

Provides an in-depth, hands-on approach to learning the human skeletal and muscular anatomy and how it relates to motion and mechanism of injury, Muscle origins, insertions, and actions will be learned through palpation.

PET 3351 Exercise Physiology
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: BSC 1085

Application of physiological principles to study of man and human performance related to health, sports and leisure activities.

PET 3351L Exercise Physiology Laboratory
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 3351
Co-requisite: PET 3351

Student shall become familiar with instruments and test procedures used to gather data on the physiology of exercise. Material and supply fee will be assessed.

PET 3640 Adapted Physical Education and Sport
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Handicapping conditions and how physical activity is adapted to the special needs of individuals with these conditions.

PET 3660 Management Strategies in Athletic Training
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Theory and application of management and organizational skills related to the athletic training profession, including current theory on human resources, financial/budgetary planning, facility design and planning, athletic injury insurance, legal issues of sports medicine, medical ethics, drug testing, and pre-participation examinations. In addition, pharmacology related to athletic training will be addressed, including practical issues regarding medications, therapeutic drug-types and actions, and the ethical, medical, and administrative issues related to dispensing over-the-counter and prescription therapeutic medications. Credit may not be earned in both PET 3484 and PET 3660.

PET 3670 Athletic Training Clinical I
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: BSC 1085, BSC 1085L, BSC 1086, BSC 1086L, PET 2604.
Co-requisite: PET 3680

Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university's athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site. Grade of "C" or better in BSC 1085/L and BSC 1086/L; and a "B" or better in PET 2604; Complete Hepatitis B vaccination (or waiver), negative Tuberculosis (TB) Skin Test, physical examination by a licensed physician, verification that technical standards of the program are met, and fingerprint identification between May 20 and June 20; and Fifty hours of supervised observational experience under a NATABOC certified Athletic Trainer prior to August 1; Contact the Director of Athletic Training Education to obtain proper forms for meeting these requirements before deadlines. Material and supply fee will be assessed. Permission is required.

PET 3671 Athletic Training Clinical II
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 3670

Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university's athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site. Material and supply fee will be assessed.

PET 3680 Protective Methods in Sports Medicine
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Principles in the selection, fabrication, and application of athletic equipment, orthotics, protective taping and bracing, and splints that are commonly used in various athletic training settings. Additionally, selection and application of selected emergency medical equipment and ambulation techniques/equipment will be addressed. Material and supply fee will be assessed. Permission is required.

PET 3771 Group Fitness Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Examines trends and skills necessary to instruct and manage group fitness activities. Emphasis on design, marketing, and instruction of programs for various populations. Topics include Yoga, Pilates, Dance Fitness, Kickboxing, Spinning, and Cardio Weight Lifting.

PET 3825 Educational Gymnastics and Dance
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides the physical education major with some fundamental knowledge and abilities of gymnastics, dance and how to teach these two areas. Helps the student understand the contribution of dance and gymnastics to the field of Physical Education.

PET 4061 Motor Development and Skill Learning
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Human motor development and the learning of motor skills are surveyed and discussed. Emphasis is placed upon factors affecting these processes and the design and selection of activities appropriate to the various stages of development and learning. Material and supply fee will be assessed. Credit may not be earned in both PET 4212 and PET 4061.

PET 4076 Balance and Mobility Training for Older Adults
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Physical activity instruction for older adults. Emphasis will be on balance and mobility training. Topics include screening and assessment, core program principles and training methods, program design, leadership, and risk management.

PET 4213 Success in Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Success in Sports (SIS) is an integration of cross-boundary research documenting the determinants of success in sports. Special emphasis will be placed on elite athletic performance. Will be organized round theoretical accounts for the attainment of elite performance. In addition, the themes of Who in which profiles characteristics of elite athletes will be presented. Why in which inherited and acquired capacities responsible for elite performance will be presented, and How in which selected techniques to maximize training effects will be examined. Offered concurrently with PET 5216; graduate students will be assigned additional work.

PET 4251 Sociology of Sport
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Examines sports using the sociological perspective. Focuses upon important, enduring issues within the sociology of sport in addition to a few controversial issues currently under debate. Through different theoretical perspectives, sport is analyzed as a key social institution that influences and is influenced by the larger society. Particular attention is paid to questions about the relationship between social stratification and sport.

PET 4310 Mechanics of Human Motion
Department: Health, Leisure, & Exercise Science
4.0 sh (may not be repeated for credit)
Co-requisite: PET 4310L

Anatomical, mechanical, analytical and functional aspects of human motor performance; emphasis upon analysis of joint actions and mechanical principles and their application to efficient movement. Anatomy and physiology are required. Material and supply fee will be assessed for corresponding lab.

PET 4361 Sport Nutrition and Weight Control
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 3351

The relationship between physical activity and nutrition; their combined effects on optimal health, fitness, and sport performance.

PET 4380 Exercise Testing and Prescription
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 3351

Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class.

PET 4380L Exercise Testing and Prescription Laboratory
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 4380
Co-requisite: PET 4380

Provides practical experience in body fat analysis, flexibility testing, basic exercise stress testing, the PWC - 170 Submaximal Aerobic Capacity test, and performance testing for 7 fitness parameters.

PET 4383C Physiological Basis of Strength Development
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 3351, PET 4380

Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 5389C; graduate students will be assigned additional work. Permission is required.

PET 4442 Physical Education in the High School
Department: Health, Leisure, & Exercise Science
2.0 sh (may not be repeated for credit)

Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities in the high school setting. Material and Supply Fee will be assessed.

PET 4460 Governance in Sport
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

A study of the growing spread and development of sport throughout the world, as well as how the governing bodies involved affect the structure, organization, and delivery of sport.

PET 4605 General Medical Conditions
Department: Health, Leisure, & Exercise Science
2.0 sh (may not be repeated for credit)
Prerequisite: PET 3671

A specialized course dealing with the pathology, signs and symptoms, and management/treatment of selected general medical conditions affecting the physically active individual.

PET 4609 Evaluation Techniques of Athletic Injuries I
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 2622

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the lower extremity and pelvic region, as well as lower extremity gait analysis.

PET 4610 Evaluation Techniques of Athletic Injuries II
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: APK 4305

A specialized course dealing with anatomy, signs and symptoms, and specific orthopedic tests used when assessing athletic injuries and conditions of the upper extremity and neck, as well as analysis of the throwing arm.

PET 4623 Rehabilitation of Athletic Injuries
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 2622

Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 5626; graduate students will be assigned additional work.

PET 4623L Rehabilitation of Athletic Injuries Laboratory
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4623

Provides the athletic training student an opportunity to demonstrate proper application of required competency skills in the area of rehabilitation. Permission is required.

PET 4632 Therapeutic Modalities in Athletic Training
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4632L

Principles and proper use of therapeutic modalities. Topics include indication, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Offered concurrently with PET 5635; graduate students will be assigned additional work. Permission is required.

PET 4632L Therapeutic Modalities in Athletic Training Laboratory
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 4632

Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries. Offered concurrently with PET 5635L; graduate student will be assigned additional work. Permission is required.

PET 4672 Athletic Training Clinical III
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 3671

Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university's athletic training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site. Material and supply fee will be assessed.

PET 4673 Athletic Training Clinical IV
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 4672

Clinical observation, practice, and successful application of specific athletic training clinical proficiencies under the direct supervision of a NATABOC Certified Athletic Trainer (clinical instructor). Clinical experiences are obtained in various athletic training settings, including the university's athletic

training settings, local high schools, outpatient rehabilitation clinics, and other settings where designated clinical instructors are utilized. Students are assigned to a supervising clinical instructor at each clinical experience site. Material and supply fee will be assessed.

PET 4691 Exercise Testing for Special Populations
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 4380

Designed of exercise programs for individuals with special medical conditions such as rheumatoid arthritis, osteoporosis, spinal disorders, diabetes, obesity, heart disease, hypertension, and pregnancy. Credit may not be earned in both PET 4552 and PET 4691. Material and Supply fee will be assessed.

PET 4710 Special Methods in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Acquaints student with specific methods, problems, and issues involved in teaching physical education in public schools.

PET 4720 Physical Education in the Elementary School
Department: Health, Leisure, & Exercise Science
2.0 sh (may not be repeated for credit)
Co-requisite: PET 4926

Designed to provide a knowledge base so prospective physical education teachers can plan and implement appropriate activities for the elementary school. Material and Supply fee will be assessed.

PET 4730 Physical Education in the Middle School
Department: Health, Leisure, & Exercise Science
2.0 sh (may not be repeated for credit)
Co-requisite: PET 4927

Designed to provide a knowledge base from which prospective physical education teachers can plan and implement appropriate activities for the middle school student. Emphasis is placed on understanding the progression from middle school to the high school developmental curricula.

PET 4744 Student Teaching in Physical Education
Department: Health, Leisure, & Exercise Science
6.0-10.0 sh (may be repeated for up to 10.0 sh of credit)
Prerequisite: PET 4710

Ten weeks of supervised teaching in a public or private school. Student teaching assignments will be made by the HLES staff and are limited to the seven westernmost counties of the Florida Panhandle. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

PET 4765 Theory and Practice of Coaching
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 3351

Introduction to coaching as a profession including ethical and legal considerations. Techniques and methods of coaching are explored. Active participation in a coaching internship in a selected sport and permission is required.

PET 4926 Practicum I: Elementary School Physical Education
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Co-requisite: PET 4720

Utilization of observation techniques with individual and small groups of pupils in the elementary school physical education setting. Students will observe teachers and assist with planning and organization of class activities. A minimum of three hours per week will be spent in the setting.

PET 4927 Practicum II: Middle School Physical Education
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Co-requisite: PET 4730

Utilization of observation techniques with individual and small groups of pupils in the middle school physical education setting. Students will observe teachers and assist with planning and organizing class activities. A minimum of three hours per week will be spent in the setting.

PET 4928 Practicum III: High School Physical Education
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Co-requisite: PET 4442

Utilization of observation techniques with individual and small groups of pupils in the high school physical education setting. Students will observe teachers and assist with planning and organizing all activities. A minimum of three hours per week will be spent in the setting.

PET 4940 Internship in Athletic Training
Department: Health, Leisure, & Exercise Science
2.0 sh (may be repeated for up to 6.0 sh of credit)

Lab application of the athletic training principles with seminars. Student will serve as an athletic trainer for an athletic team. Graded on satisfactory/unsatisfactory basis only. Permission is required.

PET 5052 Motor Learning
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Advanced study of principles/theories of human motor learning, behavior, performance. Credit may not be earned in both PET 5235 and PET 5052.

PET 5216 Success in Sports
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Success in Sports (SIS) is an integration of research documenting the determinants of successful sport performance. Special emphasis will be placed on the attainment of elite athletic performance. The course will be organized around theoretical accounts for the attainment of elite performance. Offered concurrently with PET 4213; graduate students will be assigned additional work.

PET 5389C Physiological Basis of Strength Development
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Knowledge and understanding of the physiological functions of skeletal muscle and the dynamics of strength development. Offered concurrently with PET 4383C; graduate students will be assigned additional work. Permission is required.

PET 5553 Advanced Exercise Testing and Prescription
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Physiological theory, administrative principles and techniques of exercise testing and prescription. Includes health appraisal, risk stratification, and goal setting. Students are required to complete an exercise prescription assignment outside of class. Course includes hands on experience in exercise testing with advanced equipment including hydrostatic weighing, environmental conditions, and blood glucose and lactate analysis. Course concludes with a student presentation of an exercise prescription based on testing results, medical and exercise history and risk stratification. Material and Supply fee will be assessed.

PET 5626 Rehabilitation of Athletic Injuries
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 2622

Clinical application of principles of evaluating, assessing, and rehabilitating sports-related injuries. Offered concurrently with PET 4623; graduate students will be assigned a research project as additional graduate work.

PET 5635 Therapeutic Modalities in Athletic Training
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 5635L

Principles and proper use of therapeutic modalities. Topics include indications, contraindication, techniques and effects of various physical agents involved in the care and treatment of injuries. Offered concurrently with PET 4632; graduate students will be assigned additional work. Permission is required.

PET 5635L Therapeutic Modalities in Athletic Training Laboratory
Department: Health, Leisure, & Exercise Science
1.0 sh (may not be repeated for credit)
Prerequisite: PET 2622
Co-requisite: PET 5635

Supports the theory course and provides a clinical experience for the athletic training student. Topics include indications, contraindications, application and proper use of a variety of physical agents involved in the care and treatment of athletic injuries. Offered concurrently with PET 4632L; graduate student will be assigned additional work. Permission is required.

PET 5701 Systematic Observation in Sport and Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Students will learn to use a systematic approach to observe sport and physical education instruction. Emphasis will be on using published systematic observation instruments and the development of new instruments as objective tools for observation.

PET 5702 Advanced Management of Physical Education Programs
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

This course will prepare students to effectively use current curricular theory and administrative techniques to design and implement effective developmentally and instructionally appropriate physical education programs. Emphasis is placed on developing and implementing the instructional component of physical education programs.

PET 5708 Instructional Design in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

The aim of this course is to examine models of and current research related to physical education curriculum and instructional design in schools and Physical Education Teacher Education programs. This course will provide students with skills that will enable them to interpret, critique, and evaluate models and research of physical education curricula and instructional design in schools and PETE programs.

PET 5709 Advanced Curriculum in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

This course will assist students in developing knowledge and skills in the development and assessment of the physical education learning environment. An emphasis will be placed on current curricular theory and practices beyond those covered in undergraduate physical education programs.

PET 5721 Teaching Health and Physical Education: K-6
Department: Health, Leisure, & Exercise Science
2.0 sh (may not be repeated for credit)

Presents advanced understandings, skills, and knowledge necessary for teaching a developmentally based curriculum for Physical Education in kindergarten through grade six. Emphasis is upon planning and teaching activities appropriate for the developmental level of the student. Credit may not be earned in both PET 5436 and PET 5721.

PET 5805 Analysis and Supervision in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

This course prepares students to analyze instructional quality in physical education teaching and program design.

PET 6003 Advanced Theoretical Models of Health and Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides the student with knowledge of common theoretical models used in health and physical education and the skills to use the theories in practice.

PET 6010 Professional Issues in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

This course will assist students in understanding the professional issues and concerns that are an inherent part of the physical education profession and to use that understanding to effective and positive participation in the profession of teaching physical education.

PET 6074 Successful Aging: Physiological Aspects
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Designed to assist the student in developing an understanding of the complex changes that accompany advancing age and an appreciation for the functional consequences of these changes for subsequent behavior. Emphasis will be placed on the evaluation of cardiovascular, respiratory, musculoskeletal, and body composition changes with advancing age.

PET 6355C Advanced Exercise Physiology
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)
Prerequisite: PET 3351

Research and problems in exercise physiology; advanced study of reactions of human body under stress and during exercise. Material and supply fee will be assessed.

PET 6516 Advanced Assessment and Evaluation in Health and Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Prepares doctoral students to assess student learning in PreK-12 and higher education settings and to conduct effective program evaluations.

PET 6535 Strategic Planning and Instructional Design in PE and Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Examines instructional models, planning theory, and current research related to physical education and health curriculum and instructional design in K-12 schools and in higher education. Introduces students to the process of planning and designing elementary, secondary, and higher education physical education and health programs.

PET 6706 Analysis of Research on Teaching in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

The purpose of this course is to introduce students to various streams of research in physical education and help them to critically analyze the quality of that research and its influence on the teaching and learning process in physical education.

PET 6707 Research on Physical Education/Teacher Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

This course is designed to examine the development, design, and application of the research in physical education/teacher education.

PET 6708 Research on Teaching Physical Education and Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides students with skills to interpret, critique, and evaluate research in physical education and health teaching. Attention focused on the application of research within the context of physical and health education teaching.

PET 6716 Observation and Analysis of Teaching in Physical Education
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Focuses on the study of self and others engaged in the process of interactive teaching and coaching, especially within the school context. Examines the teaching/coaching and managerial behaviors related to the learning and performance of physical education, to present data-based instruments for observing teachers, to provide guidelines for the systematic development of observation instruments to meet specific needs, and to begin to acquaint the student with the approaches to observing teaching/coaching, a brief introduction to qualitative observation will be given in this course.

PET 6774 Models of Teaching in Physical Education and Health
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides theory and practice in teaching strategies designed to facilitate learner achievement in the cognitive, affective, and psychomotor domains.

PGY - PHOTOGRAPHY

PGY 2401C Photography as Art Form: Basic Camera
Department: Art
3.0 sh (may not be repeated for credit)

Basic theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of basic techniques and aesthetic concerns in relation to the photographic image. Includes basic darkroom experience. Invites all students. Material and supply fee will be assessed.

PGY 3420C Photo Art II
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: PGY 2401C

Development of advanced techniques and concerns in relation to the black and white photographic image. Emphasis on exploration as a means of creative artistic expression. Material and supply fee will be assessed.

PGY 3500C Photographic Imaging as an Art Form
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2201C

Theory and practice of black and white photography as an art form. Emphasis on understanding the technical aspects of the camera and exploring its potential as an artistic tool. The development of techniques, aesthetic concerns, and teaching methodology in relation to the photographic image. Includes darkroom lab experience. For art education students. Material and supply fee will be assessed.

PGY 4104C Creative Darkroom
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: PGY 2401C

In-depth exploration of the use of darkroom techniques, procedures, and manipulations as an artistic means to the development of advanced techniques and aesthetic concerns in relation to the altered photographic image. Material and supply fee will be assessed.

PGY 4823 Advanced Digital Photography
Department: Art
3.0 sh (may not be repeated for credit)
Prerequisite: ART 2600C, ART 3610C

An advanced class in image manipulation with emphasis on Adobe Photoshop, use of the film recorder, darkroom techniques, and photo history and theory. Designed for artists who are interested in learning how to manipulate photographic and computer created images into finished photographs. Manipulating images and controlling equipment and images, working between the darkroom and the computer, and integrating traditional photographic processes with experimental processes are included.

PGY 4940C Photography: Personal Directions
Department: Art
3.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: PGY 2401C

Fosters the development of personal expression within the framework of black-and-white photography as an art form. Covers advanced camera and darkroom techniques, as appropriate to the individual's direction.

PHC - PUBLIC HEALTH CONCENTRATION

PHC 4XX3 Scientific Basis of Public Health
Department: Biology
3.0 sh (may not be repeated for credit)

An overview of scientific principles of public health and their application to public health problems with significant state, national, and international impact. It is recommended that students have at least one semester of a college science

such as biology or a comparable course before enrolling. Offered concurrently with PHC 5XX3 (Scientific Basis of Public Health; graduate students will be assigned additional work.

PHC 4XX4 Public Health Planning and Analysis
Department: Biology
0.0 sh (may be repeated for up to 3.0 sh of credit)

An introduction to geographic information systems (GIS) in healthcare and public health data analysis in the health sciences. This online course covers basic GIS operations such as buffering, layering, and spacial queries, and develops GIS skills through homework and case studies. It is a required course in the proposed Public Health major in the Bachelor of Science in Health Sciences (BSHS) degree program and the undergraduate Medical Informatics Certificate Program.

PHC 4101 Public Health
Department: Biology
3.0 sh (may not be repeated for credit)

Course teaches basic terms and definitions of public health and the factors leading to disease causation as well as disease prevention. Students study programs and policies that effect healthcare in a positive manner and apply basic principles of scientific reasoning with the use of available data and information. Topics introduced serve as a basis for enhancing the participants' ability to critically evaluate current trends in healthcare and develop programs and policies in an analytical manner. Permission is required. Credit may not be received in both PHC 4101 and PHC 4100.

PHC 4183 Medical Disaster Management
Department: Biology
3.0 sh (may not be repeated for credit)

Introduces students to various facets of natural and technological disasters, while integrating public health research designs and practices. Class lectures and discussions utilize recent and historical case studies as a basis for developing the critical thinking and leadership skills needed by healthcare professionals in crisis situations. International, domestic, and regional settings are addressed, as well as the social, economic, and political aspects of disaster planning, preparedness, and mitigation. Students gain an understanding of basic public health concepts and methodologies, as they relate to course material. Permission is required.

PHC 4340 Fundamentals of Industrial Hygiene
Department: Biology
3.0 sh (may not be repeated for credit)

An online-multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 5356; graduate students will be assigned additional work.

PHC 4341 Fundamentals of Occupational Safety and Health
Department: Biology
3.0 sh (may not be repeated for credit)

Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 5355; graduate students will be assigned additional work.

PHC 4363 Occupational Safety and Health in the Health Care Environment
Department: Biology
3.0 sh (may not be repeated for credit)

A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practitioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in health care, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Permission is required. Offered concurrently with PHC 5XX2 (Occupational Safety and Health in the Health Care Environment); graduate students will be assigned additional work.

PHC 5XX2 Occupational Safety and Health in the Health Care Environment
Department: Biology
3.0 sh (may not be repeated for credit)

A multidisciplinary approach to the study of occupational safety and health in health care with researcher and practictioner perspectives. Programs and applications to health care. Common worker safety hazards and controls are reviewed and safety improvement strategies are presented. Teaches recognition of safety and hazards in health care, relevant safety and health standards requirements, and identification and implementation of safety improvement initiatives. Offered concurrently with PHC 4363; graduate students will be assigned additional work.

PHC 5XX3 Scientific Basis of Public Health
Department: Biology
3.0 sh (may not be repeated for credit)

An overview of scientific principles of public health and their application to public health problems with significant state,

national, and international impact. It is recommended that students have at least one semester of a college science such as biology or a comparable course before enrolling. Offered concurrently with PHC 4XX3 (Scientific Basis for Public Health); graduate students will be assigned additional work.

PHC 5355 Fundamentals of Occupational Safety and Health
Department: Biology
3.0 sh (may not be repeated for credit)

Concerns worker protection and serves as a prerequisite for advanced study of hazards and work settings. Development and management of occupational safety and health programs, resolution of safety and health issues, and improvement of safety performance. Introduction to safety and health fields, overview of loss control information and analysis, specific safety and health programs, and program implementation and maintenance. Offered concurrently with PHC 4341; graduate students will be assigned additional work.

PHC 5356 Fundamentals of Industrial Hygiene
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: At least one undergraduate or graduate course in a health related field is preferred, but not required.

An on-line multidisciplinary approach to the study of industrial hygiene intended for a wide range of health related professionals. Recognition, evaluation and control of environmental or occupational hazards. Insight into the management of occupational health hazards and diseases that can be leveraged in a professional practice. Offered concurrently with PHC 4340; graduate students will be assigned additional work.

PHC 5410 Social and Behavioral Sciences in Public Health
Department: Biology
3.0 sh (may not be repeated for credit)

Covers behavioral and social science contributions to science disciplines, including psychology, sociology, and anthropology, will be reviewed and integrated with public health objectives and outcomes. Using a biopsychosocial framework, the role of social, psychological, and behavioral factors in health and illness are emphasized.

PHC 6XX0 GIS Applications in Public Health
Department: Biology
3.0 sh (may not be repeated for credit)

An online course presenting an overview of geographic information systems for the analysis of public health data. Course imbeds learning how to use GIS software in the context of carrying out projects for visualizing and analyzing health-related data. Part of the Master of Public Health degree program.

PHC 6000 Epidemiology for Public Health Professionals
Department: Biology
3.0 sh (may not be repeated for credit)

To enable the student to understand epidemiology as a discipline and how epidemiology, as the basic science of public health, provides information for disease prevention and treatment.

PHC 6005 Disease Transmission in the Urban Environment
Department: Biology
3.0 sh (may not be repeated for credit)

Focuses on disease transmission in the urban community and how interaction between human behaviors and environmental changes contribute to the spread of disease in urban areas in developed and developing countries.

PHC 6015 Epidemiological Study Design and Statistical Methods
Department: Biology
3.0 sh (may not be repeated for credit)

Experimental, quasi-experimental, observational, survey, surveillance, and qualitative study designs will be reviewed. Methods for reliable and valid data collection and analysis will be covered. An overview of statistical methods for the analysis of public health data will be provided.

PHC 6196 Computer Applications in Public Health
Department: Biology
3.0 sh (may not be repeated for credit)

Provides an overview of various computer applications in public health and introduces modern software systems for analyzing health-related data. Fundamentals of data collection, statistical analysis, interpretation, and reporting results are covered. Technology-based implications for legal and ethical issues are also addressed (including documentation, security, and regulatory requirements). Working knowledge of how to use personal computers, including knowledge of word-processing, spreadsheet packages and Internet searching; Training in a health care-related field at the Associate's or Bachelor's level is required. Material and Supply Fee will be assessed.

PHC 6251 Disease Surveillance and Monitoring
Department: Biology
3.0 sh (may not be repeated for credit)

Disease surveillance and monitoring is the systematic collection, analysis, interpretation, and dissemination of data for use in prioritizing, planning, implementing, and evaluating health programs, activities and practices in the United States

as well as in other developed and developing countries. Will focus on these fundamental processes and procedures which are utilized to investigate and track infectious and communicable diseases as well as non-infectious chronic diseases.

PHC 6300 Survey of Environmental Problems
Department: Biology
3.0 sh (may not be repeated for credit)

Students will be given an overview of the chemical, physical, and biological hazards present in our living and working environment and their effects on human health. Credit may not be received in both PHC 6300 and PHC 6018.

PHC 6309 Environmental Health in the Urban Community
Department: Biology
3.0 sh (may not be repeated for credit)

Today, a majority of people live in cities and by 2050 over 75% of the world's population will be urban dwellers. Will provide an overview of the major environmental health issues facing urban areas and their inhabitants. Covers the physical, chemical, and biological hazards present in urban areas and their effects on human health. Credit may not be received in both PHC 6309 and PHC 6415.

PHC 6310 Environmental Toxicology
Department: Biology
3.0 sh (may not be repeated for credit)

Environmental toxicology is the study of the effects of toxic substances on health and the environment. The student will recognize that human survival depends upon the well-being of other species and upon the availability of clean air, water, and food; and anthropogenic, as well as naturally occurring, chemicals can have detrimental effects on living organisms and ecological processes. Concepts to be covered include occurrence of toxicants, damage process and action of toxicants, factors affecting zenobiotic action, defense responses to toxicants, and others. Will also examine chemicals of environmental interest and how they are tested and regulated. Case studies and special topics will be examined.

PHC 6314 Design of Infection Control Programs
Department: Biology
3.0 sh (may not be repeated for credit)

Provides the student with an understanding of the elements and function of infection control programs in healthcare facilities.

PHC 6562 Microbiology in Health Care
Department: Biology
3.0 sh (may not be repeated for credit)

There is a vast number of microorganisms - bacteria, viruses, parasites, fungus, and mycobacteria - some of which are beneficial, some harmless, while others cause disease and death in humans. An understanding of these microorganisms is essential for healthcare professionals to apply principles of infection prevention and control. Will cover the diversity of microorganisms, controlling their growth, health aspects, and the prevention and control of infectious diseases.

PHC 6946 Internship in Public Health
Department: Biology
6.0 sh (may not be repeated for credit)

An internship in a public health agency or setting. Under supervision by an adjunct or full-time faculty member teaching in the UWF MPH program and an approved preceptor, students will work on a problem related to management, development or administration of a program in public health or related to research in public health. May not be required of students with extensive experience in the field of Public Health. A written report on the internship experience is required and the report must be defended before MPH faculty. Graded on a Satisfactory/Unsatisfactory basis only. Permission is required.

PHH - PHILOSOPHY: HISTORY

PHH 3100 Greek Philosophy
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Development of ancient Greek philosophy; pre-Socratic, Plato, Aristotle and Hellenistic philosophy.

PHH 3400 Modern Philosophy
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Development of modern philosophy from Renaissance through 18th century; Descartes, Locke, Berkeley, Hume, Spinoza, Leibniz and Kant.

PHH 4200 Medieval Philosophy
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

History of medieval philosophy from Augustine to Ockham, including such issues as the existence of God, the problem of evil, free will and the nature of human knowledge.

PHH 4600 Contemporary Philosophy
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

20th century developments in philosophical thought. May include logical positivism, linguistic analysis and phenomenological analysis.

PHI - PHILOSOPHY

PHI 2010 Introduction to Philosophy
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Nature of philosophical thinking, discussion of fundamental and perennial problems of philosophy. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/VAL)

PHI 2100 Introduction to Logic
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Methods and principles used in distinguishing correct from incorrect reasoning: definition, informal fallacies, traditional Aristotelian categorical logic. (Gordon Rule Course: Applied Math) and (General Studies Course: HUM/VAL)

PHI 2603 Ethics in Contemporary Society
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Explores the fundamental problems of Western ethics, the classical and Judeo-Christian traditions, modern ideals of the good for the individual business, politics and the environment. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/VAL)

PHI 3130 Modern Logic
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Training and skills of modern symbolic logic and their application to evaluation of arguments. Propositional logic, predicate logic.

PHI 3320 Philosophy of Mind
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Introduces and examines proposed theories, from philosophy as well as the brain and behavioral sciences, regarding various aspects of the mind-body problem: mental representation, consciousness, mental imagery, innateness, the language of thought and the computer model of the mind, etc. (Gordon Rule Course: Wrtg)

PHI 3400 Philosophy of Science
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Concepts and types of explanation used in sciences. May include differences between natural and social sciences, inductive reasoning and scientific explanation, and relation of science to society.

PHI 3452 Philosophy of Biology
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Philosophy of biology focuses on evolutionary theory, examining such questions as "what is a gene", "what does natural selection select" and "what are the moral/social implications of evolutionary theory"?

PHI 3640 Environmental Ethics
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Introduces students to issues and problems in the field of environmental ethics. Theories of value are investigated in the effort to clarify the interrelations between humanity and nature. Discussions concerning the moral status of the non-human community will not be restricted to debates over value theory alone, but will also encompass metaphysical issues that bear upon environmental problems.

PHI 3670 Ethics
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Philosophical theories concerning nature of the good, moral obligation, human excellence and application of ethical theory to problems of the individual in relation to society.

PHI 3700 Philosophy of Religion
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Problem of religious language. Arguments for atheism and existence of God. Phenomenology of religious experience. Problems of evil and nature of God. Theories of immortality. (Gordon Rule Course: Wrtg)

PHI 3800 Philosophy of Art
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Creative process-artist and percipient. Various art forms: painting, sculpture, architecture, literature, theatre, music. Theories of evaluation. Artist and community; commercialism, propaganda and pornography.

PHI 3880 Philosophy of Film
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Investigates the major theoretical and conceptual issues surrounding the art of film. Philosophical concepts underlying film theories such as realism, formalism, hermeneutics, and structuralism will be examined and applied to cinematography, editing, sound, and mise en scene. Other

conceptual issues may include perception, representation, narrative, and ideology.

PHI 4300 Theory of Knowledge
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Various theories of relation between human knowledge and reality; empirical, rationalistic, linguistic and phenomenological. (Gordon Rule Course: Wrtg)

PHI 4633 Biomedical Ethics
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Designed to introduce students to the moral and conceptual foundations of ethics, to various ways of analyzing selected problems in the field, and applications of various theories to the professions.

PHI 5681 Man, Nature and Value
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Explores the interrelationship that exists between man, nature and value. Emphasis will be given to historical development on ideas concerning man's place in nature as well as to metaphysical foundations and the impact they have on the way value is conferred on the world. Issues treated will include; metaphysical theories of reality, belief systems and their influence on axiological positions, value theories of nature, anthropocentric and biocentric theories of ethics.

PHI 6425 Humanistic Understanding
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Comparison of scientific explanation and humanistic understanding in the social sciences and humanities.

PHM - PHILOSOPHY OF MAN AND SOCIETY

PHM 3032 Environmental Humanities
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Explores environmental concepts and concerns in the humanities. Topics will include historical expressions of the human-nature relationship in art, philosophy, religion, and science. Contemporary movements such as environmentalism, ecofeminism, ecotheology, and deep ecology will also be examined.

PHM 3200 Social and Political Philosophy
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Social and political theories and ideals that have influenced development of Western man; significance of these for contemporary society.

PHM 4020 Philosophy of Sex and Love
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Intended to familiarize you with the major philosophical and moral issued surrounding our sexuality and its attendant emotions. Will draw upon thinkers from within the history of Western Philosophy and psychology - including Plato, Augustine, Kant, Freud, DeBeauvoir and Nagel. Offered concurrently with PHM 5026; graduate student will be assigned additional work.

PHM 4051 Alternative Philosophies
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Introduces, examines, and studies the impact of Western and Eastern modes of thought on the fringe of society. Nouwen, Merton, Levine, Weil. Meets Multicultural requirement.

PHM 5026 Philosophy of Sex and Love
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Intended to familiarize you with the major philosophical and moral issues surrounding our sexuality and its attendant emotions. Will draw upon thinkers from within the history of Western Philosophy and psychology - including Plato, Augustine, Kant, Freud, DeBeauvoir and Nagel. Offered concurrently with PHM 4020; graduate student will be assigned additional work.

PHM 5505 Philosophy of History
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Nature and meaning of history and historical inquiry; speculative systems concerning process and goal of history; critical analysis dealing with method, law, objectivity and truth in writing history.

PHP - PHILOSOPHERS AND SCHOOLS

PHP 3786 Existentialism
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Basic concepts and ways of experiencing the world through various existential writers. May include Hegel, Kierkegaard, Nietzsche, Jaspers, Sartre, Heidegger and Merleau-Ponty.

PHY - PHYSICS

PHY 1020 Introduction to Concepts in Physics
Department: Physics
3.0 sh (may not be repeated for credit)

An introductory survey of the natural laws of the universe. Presents the basic concepts associated with the scientific method, force and motion, matter and energy, electricity and magnetism, the atom and the solar system. Open to elementary education and other non-science majors. (General Studies Course: NS/LEC)

PHY 1020L Introduction to Concepts in Physics Laboratory
Department: Physics
1.0 sh (may not be repeated for credit)
Prerequisite: PHY 1020
Co-requisite: PHY 1020

An introductory laboratory providing hands-on experience with basic experiments in physics involving the concepts of force and motion, matter and energy, electricity and magnetism, and the atom. Open to elementary education and other non-science majors. (General Studies Course: NS/LAB)

PHY 2048 University Physics I
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Linear and rotational motion of objects in 1, 2, and 3 dimensions, concepts of work and energy, oscillations and waves, heat and thermodynamics. (General Studies Course: NS/LEC)

PHY 2048L University Physics I Lab
Department: Physics
1.0 sh (may not be repeated for credit)

Selected experiments in mechanics, oscillatory motion, and heat. (General Studies Course: NS/LAB)

PHY 2049 University Physics II
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 2048, MAC 2312

Continuation of PHY 2048. Electrostatics and magnetism; basic electric circuits; optics; selected topics in modern physics. (General Studies Course: NS/LEC)

PHY 2049L University Physics II LAB
Department: Physics
1.0 sh (may not be repeated for credit)

Selected experiments in optics, electricity, and magnetism. (General Studies Course: NS/LAB)

PHY 2053 General Physics I
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105

Mechanics, heat, waves, and sound. (General Studies Course: NS/LEC)

PHY 2053L General Physics I Laboratory
Department: Physics
1.0 sh (may not be repeated for credit)

Selected experiments in mechanics, oscillatory motion, and heat. (General Studies Course: NS/LAB)

PHY 2054 General Physics II
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 2053

Continuation of PHY 2053. Light, electricity and magnetism; elementary quantum theory; atomic, nuclear and particle physics. (General Studies Course: NS/LEC)

PHY 2054L General Physics II Laboratory
Department: Physics
1.0 sh (may not be repeated for credit)

Selected experiments in optics, electricity, and magnetism. (General Studies Course: NS/LAB)

PHY 3013 Physics and Mathematics for Game Programming
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 1105 or MAC 1140 or MAC 1114 or MAC 2233 or MAC 2311

Introduction to basic principles including linear and rotational motion with forces, friction, air resistance, gravity, collisions, waves, geometry, vectors, matrices, derivatives, applications to 2-D and 3-D transformations and rendering, 2-D and 3-D kinematics, and dynamics, simulation of water, waves, cars, hovercraft, ships and boats, aircraft and spacecraft.

PHY 3106 Modern Physics I
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313 and either PHY 2049 or PHY 2054

Introduction to modern physics, theory of relativity, electromagnetic waves and photons, matter waves, quantum theory, atomic structure, quantum mechanics.

PHY 3106L Modern Physics Laboratory
Department: Physics

2.0 sh (may not be repeated for credit)
Prerequisite: PHY 3106

Selected experiments in modern physics and optics. Material and supply fee will be assessed.

PHY 3107 Modern Physics II
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 3106

Special topics in modern physics: quantum mechanics, atomic structure, molecular structure, atomic and molecular spectra, physics of solids, and band structure, nuclear structure, nuclear forces, radioactive decay and nuclear reactions, elementary particles, and fundamental interactions.

PHY 3220 Intermediate Mechanics
Department: Physics
4.0 sh (may not be repeated for credit)
Prerequisite: PHY 2048 or PHY 2053
Co-requisite: MAP 2302

Particle mechanics in 1, 2 and 3 dimensions for various forces. Central forces and celestial mechanics. Systems of many particles. Rigid body dynamics. Introduction to Lagrangian methods.

PHY 3424 Optics
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHZ 4113

Geometrical, physical, and modern optics. Polarization, interference, diffraction, holography, and optical fibers.

PHY 4250 Fluid Mechanics
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAS 4156 or PHZ 4113

Equations of motion, Bernoulli's equation, momentum and continuity, pipe and boundary layer flow, and shock waves.

PHY 4323 Electricity and Magnetism I
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: EGM 3512 or PHY 3220; MAS 4156 or PHZ 4113

Electrostatics, Gauss's Theorem, magnetic fields, Biot-Savart Law, electromagnetic induction, introduction to Maxwell's Equations, and electromagnetic waves.

PHY 4325 Electricity and Magnetism II
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 4323

Maxwell's equations and electromagnetic waves in vacuum and in a medium, radiation from dipoles and antennas, transmission lines, wave guides, relativistic electrodynamics, Lienard-Weichert Potentials.

PHY 4445 Lasers and Applications
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 2049 or PHY 2054

Introduction to lasers and applications covering topics on nature of light, photons, elements of semi-conductor physics, modulation of light, displays, laser principles, types of lasers and their design, photodetectors, fiber optics, optical communications.

PHY 4513 Thermodynamics and Kinetic Theory
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313 and PHY 2048

Laws of thermodynamics, thermodynamic potentials, kinetic theory of gases, Maxwell-Boltzman distribution, introduction to Bose Einstein and Fermi-Dirac statistics.

PHY 4604 Quantum Theory
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: PHY 4323 and PHZ 4113

Postulates of quantum theory, Schrodinger equation, particle in a box, harmonic oscillator; hydrogen atom, and perturbation theory.

PHY 4910 Independent Research
Department: Physics
2.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: PHY 3106

Experimental or theoretical research on an individually assigned project. Permission is required. Material and supply fee will be assessed.

PHZ - PHYSICS (CONTINUED)

PHZ 1450 Exotic Physics
Department: Physics
3.0 sh (may not be repeated for credit)

A non-mathematical assessment of the universe, its fundamental constituents, and its history. Focus will be on topics outside of commonplace phenomena, including elementary particle physics, the Big Bang, cold dark matter, extra dimensions, grand unified theory, and string theory. (General Studies Course: NS/LEC).

PHZ 3108 Intermediate-Level Physics Problems
Department: Physics
1.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313, PHY 2049

Practicum in the art of solving problem across the physics curriculum. Intended to bridge introductory university physics to the upper-level physics core. Credit may not be received in both PHZ 3108 and PHZ 3106.

PHZ 4113 Mathematical Physics I
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2313

Algebra of complex numbers, Taylor series, Fourier series, vector algebra and calculus, and curvilinear coordinates.

PHZ 4114 Mathematical Physics II
Department: Physics
3.0 sh (may not be repeated for credit)
Prerequisite: MAP 2302 and PHZ 4113

Special functions, boundary value problems, partial differential equations, series solutions, and integral transforms.

PLA - PARALEGAL/LEGAL ASSISTANT/LEGAL ADMINISTRATION

PLA 2013 Survey of American Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Study of American law, focusing on why there are laws, as well as who makes and enforces the laws. Covers what is commonly known as "everyday law," that is, how law affects us in our daily lives. (General Studies Course: SS/SOC) Credit may not be earned in both PLA 2057 and PLA 2013.

PLA 2948 Service Learning Field Study I
Department: Criminal Justice and Legal Studies
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

A cooperative effort between the UWF Legal Studies Program, the UWF Center for Learning Through Volunteer Efforts (CLOVE), and a public or private law-related office. Allows students the opportunity to focus on various learning objectives in a potential career field. Students work under the overall supervision of a licensed attorney or other legal professional at the placement site. Permission is required.

PLA 3020 Law and Society
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Exploration of how the legal system interacts with social issues, such as the death penalty, domestic violence, slavery, abortion, and lifestyle choice. Credit may not be earned in both PLA 3691 and PLA 3020.

PLA 3021 Law and Film: Fact or Fiction
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Films may capture not only facts, but also emotions that occur in the pursuit of justice. Films chosen illustrate the complexities of legal and justice issues, the involvement of various stakeholders in the system and the merit or lack of merit of character's decision-making. Highlights the practice of law, stakeholders, judicial processes, as well as interactions with society and politics.

PLA 3103 Legal Research and Writing
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: PLA 3703
Co-requisite: PLA 3703

Introduces the student to the sources, tools and techniques of legal research and writing including, but not limited to, primary and secondary sources covering judicial, legislative and executive branches. Permission is required. Credit may not be earned in both PLA 3103 and PLA 4103.

PLA 3240 Alternative Dispute Resolution
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Introduces students to different alternative dispute resolutions (ADR) methods as a means of peacefully communicating with another person regarding a conflict and working together to find a solution in an appropriate manner. Eight basic methods of ADR, and several hybrids, will be explained in detail. Presents ADR against the backdrop of traditional litigation, which offers a more formal, and generally more costly, method of resolving disputes. Asks students to evaluate disputes and disputants and to select the most appropriate method for resolving a matter.

PLA 3429 Contracts and Business Entities
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Overview of contract law, and law related to business entities such as corporations, partnerships, and sole proprietorships.

PLA 3467 Bankruptcy and the Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Basic concepts of bankruptcy law and procedure as well as state law collection remedies with special emphasis on the paralegal's role in both areas.

PLA 3471 Employment Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Designed for students interested in the subject of employment discrimination from many approaches: as a practitioner in the legal field, as an employer, as an advisor to employers, as an employee, or as an advisor to employees. The focus will be on the basic laws of employment discrimination, the means and methods of seeking the protections of those laws, and the means and methods of employers assuring compliance with the laws.

PLA 3613 Property Law and Transactions
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Covers contracts for the sale of land, forms, or real estate ownership, steps involved in a real estate transaction, drafting of leases, purchases, and sales agreements, drafting of mortgages and notes, drafting of deeds, preparing and executing a complete real estate closing and preparing a title search and real estate abstract.

PLA 3703 The Legal System and Ethics
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Applications of legal studies. Students will explore options in legal studies, professional development, and legal ethics. Credit may not be received in both PLA 3703 and PLA 3700.

PLA 3806 Family Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Law of family relations including marriage, divorce, support, property division, custody, paternity, adoption, and annulment. Credit may not be earned in PLA 3806 and either PLA 3800.

PLA 3948 Service Learning Field Study II
Department: Criminal Justice and Legal Studies
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

A cooperative effort between the UWF Legal Studies Program, the UWF Center for Learning Through Volunteer Efforts (CLOVE), and a public or private law-related office. Allows students the opportunity to focus on various learning objectives in a potential career field. Students work under the overall supervision of a licensed attorney or other legal professional at the placement site. Permission is required.

PLA 4025 Sex Discrimination Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examines the traditional role of women and men, historically and in the constitutional context, and the current legal status of men and women in specific areas such as employment, family law, sports, education and criminal law. Credit may not be earned in both PLA 4693 and PLA 4025.

PLA 4155 Legal Advocacy
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: PLA 3103

Emphasis is on improving legal writing ability through the use of practical writing assignments, including case briefs, legal correspondence, legal memoranda, and trial briefs. (Gordon Rule course: Wrtg)

PLA 4204 Civil Procedure
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Civil litigation in the Florida and Federal courts. Covers substantive civil law, Florida and Federal rules of civil procedure and related matters from initial interview through pre-trial preparation including drafting of pleadings and preparing discovery.

PLA 4225 Trial Practice
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)
Prerequisite: PLA 4204

A case through the trial process from opening statements through verdict.

PLA 4263 Evidence
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Rules of evidence, including relevancy, hearsay, competency of witnesses and burdens of proof. The Federal Rules of Evidence are emphasized.

PLA 4277 Tort Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

In-depth study of the fundamental principles of negligence, intentional torts, strict liability, product liability, and vicarious liability. Credit may not be received in both PLA 4277 and PLA 4273.

PLA 4306 Criminal Law
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Examination of the major substantive crimes, including homicide, burglary, arson, offenses against the person, and offenses against property. The concepts of criminal

responsibility, parties to crime, causation, and special legal defenses are also studied. Credit may not be received in both PLA 4306 and PLA 4304.

PLA 4309 Criminal Procedure
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

The study of criminal procedure is a fascinating one which involves an examination of the power of the government to enforce the criminal law versus the right of individuals to be free from government intrusions, as guaranteed by the Constitution. Will help students develop critical analysis skills by examining the constitutional framework for the enforcement of criminal law. After examining the constitutional provisions that effect and affect criminal procedure, we will then examine these principles in action by focusing on police practices including searches, seizures, interrogations, identification procedures, and arrests. Finally we will study the criminal court process from the charging decision through the appeals process. Credit may not be received for both PLA 4309 and PLA 4308.

PLA 4453 Consumer Rights
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Current trends, developments, law and remedies as they relate to today's consumer, including debtor/creditor rights.

PLA 4607 Wills, Estates, and Trusts
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Covers the need for estate planning, drafting and execution of basic wills, the laws of intestate succession, the purposes of trusts, formal and informal probate administration and the tax consequences of wills and trusts. Credit may not be received in both PLA 4607 and PLA 4601.

PLA 4885 Constitutional Law for the Paralegal
Department: Criminal Justice and Legal Studies
3.0 sh (may not be repeated for credit)

Seeks an integration of the study of the Constitution with the pragmatics of the practice of law for the paralegal. Introduces the basic concepts of the Constitution in the light of how Constitutional issues arise in the modern practice of law and how to prepare to meet these arguments. Covers Supreme Court jurisdiction, how to read Supreme Court cases, separation of powers, Federalism, Commerce Clause, Due Process cases, First Amendment, Privacy, and Equal Production. Will be focusing on issues confronted in modern courts and law office. Credit may not be received in both PLA 4885 and PLA 4880.

PLA 4933 Special Topics in Legal Studies
Department: Criminal Justice and Legal Studies
3.0 sh (may be repeated for up to 12.0 sh of credit)

The study of special issues in legal studies. Subject matter will vary depending upon the issue(s) selected for study (e.g., philosophy of law).

PLA 4941 Legal Studies Internship
Department: Criminal Justice and Legal Studies
1.0-3.0 sh (may be repeated for up to 6.0 sh of credit)

Individual field experience in law related offices including private attorneys, public agencies, and alternative dispute resolution firms. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

POS - POLITICAL SCIENCE

POS 2041 American Politics
Department: Government
3.0 sh (may not be repeated for credit)

Deals with the constitutional principles on which the republic was founded, the evolution of institutions which emerged after 1789, and the development of processes and policies in response to 20th Century challenges and changes in the political culture. (General Studies Course: SS/SOC)

POS 3072 Women and Politics
Department: Government
3.0 sh (may not be repeated for credit)

The evolution of women's involvement in politics, as voters, activists, candidates, and public officials. The history of the women's movement will be traced from the founding to the Seneca Falls Convention (1848), to the suffrage movement of the early 1900s, to the Year of the Woman in 1992. Examines the contemporary participation of women in American political institutions, particularly the U.S. Congress and state legislatures. Outlines the character and substance of women's participation in both the electoral and policy-making arenas to better understand the influence of women in the American political system.

POS 3122 Issues in American Government and Politics
Department: Government
3.0 sh (may not be repeated for credit)

Significant issues relative to the constitutional, organizational and political processes of American government and politics.

POS 3283 Judicial Process
Department: Government
3.0 sh (may not be repeated for credit)

Structural-functional introduction to the judicial arena. Personnel involved in administration of justice. Impact of judicial decisions within political systems. General introduction to workings and strategies of judicial politics.

POS 3413 The Presidency
Department: Government
3.0 sh (may not be repeated for credit)

We begin our exploration of the American presidency with a critical overview of the constitutional parameters of the executive office. What did our founding fathers expect from an executive? From there we examine how the presidential institution has evolved since the founding. The presidency definitely has a somewhat different place now in our separated system of branches sharing power than it once did. One of the most important features we address is how individual presidents have impacted the scope and direction of the office. We highlight the important role of person style, leadership, persuasion, and charisma as an influence on American government as a whole. Finally, we evaluate competing theories of presidential power to see how useful they are in explaining contemporary presidential politics.

POS 3424 The Legislative Process
Department: Government
3.0 sh (may not be repeated for credit)
Prerequisite: POS 2041

Politics of accommodation in formulating authoritative policies and general rules; emphasis on U.S. Congress and Florida Legislature in action; relations to other governmental processes.

POS 3453 Political Parties and Interest Groups
Department: Government
3.0 sh (may not be repeated for credit)
Prerequisite: POS 2041

Political parties, nominations, campaigns, elections, voting behavior, political recruitment, party organization and parties as managers of government. Roles and functions of interest groups.

POS 3602 The Founders' Constitution
Department: Government
3.0 sh (may not be repeated for credit)

Discussion of the debates behind the creation and adoption of the American Constitution. Analysis of the notes of the Constitutional Convention of 1787 and the alternative proposals for the organization of the National Government. Examination of the merits of arguments both for and against the adoption of the Constitution and the records of the creation and adoption of the Bill of Rights in the First Congress.

POS 3608 Constitutional Law: Federalism and Separation of Powers
Department: Government
3.0 sh (may not be repeated for credit)

Offers an introduction to the fundamental features of the Supreme Court and its Constitutional jurisprudence. In particular, students will examine through a case-study approach the evolution of judicial review, separation of powers, powers of the President and Congress, the evolution of federalism, the national commerce power, and national taxing and spending powers.

POS 3623 Bill of Rights
Department: Government
3.0 sh (may not be repeated for credit)

Examination of protection of individual rights under the Constitution with particular emphasis on the Bill of Rights and the Due Process and Equal Protection clauses. Among specific topics to be considered will be: the rights of the defendant, racial discrimination, sex discrimination.

POS 3624 Constitutional Law: Individual Rights and Privileges
Department: Government
3.0 sh (may not be repeated for credit)

Offers an introduction to Supreme Court's role in the protection of individual rights, due process, and the equal protection of the laws. In particular, students will examine through a case study approach the evolution of the Court's jurisprudence in cases pertaining to civil rights and individual freedoms protected under the Constitution of the United States.

POS 3625 First Amendment Freedoms
Department: Government
3.0 sh (may not be repeated for credit)

Problem areas and doctrinal evolution in the judicial protection of First Amendment freedoms. Among specific subjects to be examined will be: free speech and press, free exercise of religion, state aid to religious schools, regulation of obscenity, freedom of association, and regulation of subversive activity.

POS 3734 Political Science Research Methods
Department: Government
3.0 sh (may not be repeated for credit)

Introduction to research methods in political science and the concepts associated with it. Surveys, polling, research design, sampling, data analysis and library research.

POS 4673 Jurisprudence
Department: Government
3.0 sh (may not be repeated for credit)

A survey of various approaches to theorizing about the Concept of Law. The Natural Law, Legal and Analytical Positivist, Sociological, Realist, and Critical Legal Studies approaches will be studied. In addition, concepts of Justice will be considered.

POS 4941 Internships
Department: Government
1.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

Special "real-world" encounters programs designed for the individual student. Student must contact their advisor one semester in advance of desired date for internship. Graded on a satisfactory/unsatisfactory basis only. Permission is required.

POS 6006 The Study of Politics
Department: Government
3.0 sh (may not be repeated for credit)

Introduces the graduate study of political science. It concerns "scope" more than "method," and the range is broad, focusing on what political scientists do--teach, research, advise, and serve. Concerns embrace every conceivable level--local, regional, national, cultural, global, planetary.

POS 6045 American Politics
Department: Government
3.0 sh (may not be repeated for credit)

Concept of politics: some of the principles that have led to the development of the American political system and the political order that has been created by the constitution.

POS 6704 Political Science Research Methods
Department: Government
3.0 sh (may not be repeated for credit)

Methods and logic of research in political science.

POS 6940 Internship
Department: Government
2.0-6.0 sh (may be repeated for up to 6.0 sh of credit)

The Department of Government encourages students to intern at governmental and non-profit agencies, as well as selected private-section firms, as an opportunity to gain practical experiences in a field of endeavor related to political science. In some instances, the internship could provide the intern with an opportunity for future employment. Although students are free to find their own internships, the Department will work with students in accomplishing this task. Eligibility requirements for an internship: 3.0 or higher GPA. Students should be enrolled in the Masters of Political Science Program, and have completed all core courses. Graded on satisfactory/unsatisfactory basis only. Permission is required.

POS 6971 Thesis
Department: Government
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

POT - POLITICAL THEORY

POT 3103 Law and Politics in Literature
Department: Government
3.0 sh (may not be repeated for credit)

Discussion of law and politics within history's most prominent literary works. Examination of the rule of law within political life in relation to character and plot development. Exploration in the ways in which literature illustrates the challenges posed by human nature to the just administration of law.

POT 4204 American Political Thought
Department: Government
3.0 sh (may not be repeated for credit)

Significant American political theorists, schools of thought and their influence on the political system. Offered concurrently with POT 5207; graduate students will be assigned additional work.

POT 4601 Masters of Political Thought
Department: Government
3.0 sh (may not be repeated for credit)

Historical study of the development of ideas relative to the state and government by eminent theorists from Plato to Hayek. Offered concurrently with POT 5602; graduate students will be assigned additional work.

POT 5207 American Political Thought
Department: Government
3.0 sh (may not be repeated for credit)

Significant American political theorists and schools of thought; their influence on the political system. Offered concurrently with POT 4204; graduate students will be assigned additional work.

POT 5602 Masters of Political Thought
Department: Government
3.0 sh (may not be repeated for credit)

Historical study of the development of ideas relative to the state and government by eminent theorists from Plato to Hayek. Offered concurrently with POT 4601; graduate students will be assigned additional work.

PPE - PERSONALITY

PPE 4003 Theories of Personality
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Assumptions, structure, dynamics and determinants of personality. Consideration of various personality theories, pertinent research and its application to everyday life.

PSB - PSYCHOBIOLOGY

PSB 4002 Brain, Behavior, and Experience
Department: Psychology
3.0 sh (may not be repeated for credit)

Introduction to the brain and its relationship to behavior and experience. Topics covered: structure and function of the nervous and endocrine systems, sensation/perception, emotion and motivation, thinking and consciousness, learning and memory, malfunctions of the mind. Credit cannot be received in both PSB 4002 and PSB 4003.

PSB 4731 Psychobiology of Sexual Behavior
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: DEP 2004, PSY 2012; and either BSC 1005 or BSC 1010 or PSB 4002

Study of biological and sociocultural determinants of sexual development throughout the human life span. Special emphasis is given to sexual orientation, sexual preference, sexual variance, and purported gender differences.

PSB 5035 Cognitive Neuroscience
Department: Psychology
3.0 sh (may not be repeated for credit)

Biological bases of mind and behavior: History and methods of cognitive neuroscience; evolutionary perspectives on cognition; neural substrates of development and motor control, attention and perception, learning and memory, language and consciousness, cerebral lateralization and specialization.

PSB 6089 Brain and Mind: Fact and Fantasy
Department: Psychology
3.0 sh (may not be repeated for credit)

Seminar focusing on controversial issues in psychobiology of human information processing. Topics typically covered concern the relationship between the brain and consciousness, intelligence, memory and other mental processes.

PSY - PSYCHOLOGY

PSY 2012 General Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

A survey of methods, theories, and body of knowledge of contemporary psychology, including such topics as learning, motivation, sensation and perception, development, thinking, personality, social behavior, psychological adjustment, and methods of therapy. (General Studies Course: SS/BEH)

PSY 2023 Careers in Psychology
Department: Psychology
1.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Will provide students with an overview of the discipline of psychology, including expectations for the psychology major, career options for students completing a bachelor degree in psychology, and career options for students who pursue a graduate degree in psychology. Skills required for library research, writing in the style of the American Psychological Association, and ethical and professional issues will be discussed.

PSY 2948 Service Learning Field Study I
Department: Psychology
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

PSY 3948 Service Learning Field Study II
Department: Psychology
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

PSY 3949 Cooperative Education
Department: Psychology
1.0-2.0 sh (may be repeated for up to 4.0 sh of credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Permission of director of Cooperative Education is required.

PSY 4302 Psychology of Assessment
Department: Psychology
3.0 sh (may not be repeated for credit)

Fundamentals of testing and measurement of aptitude, achievement and personality. STA 2023 is recommended prior to taking this course. Credit may not be received in both PSY 4302 and PSY 4383.

PSY 4832 Sport and Exercise Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Introduces students interested in psychology, exercise science, physical education, sports medicine, coaching, athletic training or fitness instruction, to principles of psychology as applied to sports and exercise. Topics covered include methods of performance enhancement and mental training, exercise adherence, violence in sports, effects of sports on children, team dynamics, and drug and steroid use among athletes.

PSY 4949 Cooperative Education
Department: Psychology
0.0 sh (may not be repeated for credit)

Alternating full-time or consecutive parallel terms of practical experience in the intended field. Reinforcing academic preparation; confirming educational and career goals; personal and professional development; early start in career; earnings toward self-support; improved employability. (See program description under Cooperative Education). Graded on satisfactory/unsatisfactory basis only. Master level student and permission of director of Cooperative Education is required.

PSY 5016 Conjunctive Psychology
Department: Psychology
2.0 sh (may not be repeated for credit)

A practical and integrated overview of the fundamental dynamics of human behavior and consciousness, drawing from all the world's psychologies, and emphasizing contributions not well known in Western Psychology. Topics include breathwork, nutrition, ayurveda, pranayama, chi kung, chakras, yoga, behaviors of the mind, states and levels of consciousness, self and will, and transpersonal awakening, and their applications in professional settings.

PSY 5016L Conjunctive Psychology Laboratory
Department: Psychology
1.0 sh (may not be repeated for credit)
Co-requisite: PSY 5016

Practical experience and skill training that parallel topics of the lecture course. Grading is based on attendance and participation, and contribution to the class.

PSY 6217 Research Design in Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: EXP 3082, EXP 3082L, and STA 2023

The logical and philosophical foundations of scientific research will be discussed. Topics include researching the literature, developing research questions, designing and evaluating empirical research, and communicating research methods and results in standard technical format (APA style). Ethical issues in the conduct of research will be addressed. Particular attention is given to the selection of procedures for obtaining empirical data that provide meaningful answers to research questions and to the relation between research design and statistical analysis. A major component is a written research proposal in which the student is expected to demonstrate his or her ability to review the psychological literature, develop a testable research hypothesis, design a sound study to test this hypothesis, identify the appropriate statistical analysis for the data this design would generate, and provide an interpretation of results.

PSY 6917 Supervised Research
Department: Psychology
1.0-3.0 sh (may be repeated for up to 12.0 sh of credit)

Credit is earned by serving in an apprenticeship position under a faculty member and assisting with one or more research projects. Although the student may enroll in more than one supervised experience in research or teaching (see PSY 6940), a maximum of 3sh in supervised experiences will be applied toward the degree requirements. Permission is required.

PSY 6940 Supervised Teaching
Department: Psychology
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Credit is earned by serving in an apprenticeship position under a faculty member and assisting with the teaching of one or more courses. Although the student may enroll in more than one supervised experience in teaching or research (see PSY 6917), a maximum of 3sh for supervised experiences will be applied toward the degree requirements. Permission is required.

PSY 6948 Internship
Department: Psychology
1.0-6.0 sh (may be repeated for up to 12.0 sh of credit)

Supervised experience in community, agency, school, or business organization where student serves as full-time staff member. Student participates in full range of services available in the setting. An internship portfolio and paper are required. May enroll for more than one term-total of 6sh required for M.A. degree. Minimum of 600 clock hours required. Graded on satisfactory/unsatisfactory basis only. Permission is required.

PSY 6971 Thesis
Department: Psychology
1.0-6.0 sh (may be repeated for up to 36.0 sh of credit)

Includes research projects, theoretical treatises and case studies. May enroll for more than one term-total of 6sh required for M.A. degree. Graded on satisfactory/unsatisfactory basis only. Permission is required.

PSY 8980 Dissertation
Department: Psychology
1.0-6.0 sh (may be repeated for up to 18.0 sh of credit)

Major individual research in an area of significant psychological interest; designed specifically for candidates in the Ed D Curriculum and Instruction Program-Social Sciences/Psychology Specialization. Reflects intensive social science research produced by the student with guidance from the major professor and doctoral committee members. Admission to candidacy and permission is required. Graded on satisfactory/unsatisfactory basis only.

PUP - PUBLIC POLICY

PUP 3008 Analyzing Political Issues
Department: Government
3.0 sh (may not be repeated for credit)

From the education of our children to the safety of our airlines, those who make the laws affect each of our lives on a daily basis. Rarely, however, is the public aware of the process by which new ideas become law or the reasons why archaic policy solutions are left unchanged. A survey of contemporary issues in American politics such as energy and the environment, education, health care, welfare programs, crime, and the economy. Throughout the semester, we will grapple with competing theories and competing methodologies for describing, analyzing, and evaluating what governments do in the political world in which we currently live.

PUP 4004 Public Policy
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Study of how public policy is made, especially at the national level. Focus is on current issues and events including the role of the President, Congress, interest groups, bureaucracy and the public. Extensive use of current news sources in the print, television, and internet media.

PUP 4044 Analytic Techniques for Public Policy
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 5045; graduate students will be assigned additional work.

PUP 4244 Natural Resource Policy
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

The history of natural resource and environmental policy in the United States and the institutions and processes of American natural resource and environmental policy making. Addresses the ongoing transformations in these broader institutions and processes and considers their linkage to the formulation of public policy as it relates distinctly to natural resources and the natural environment.

PUP 5045 Analytic Techniques for Public Policy Analysis
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Practical orientation to public policy analysis. The role of the policy analyst in the context of the American public policy process and its institutional framework. Focus upon actual techniques required to perform policy analysis. Different policy areas are utilized to demonstrate the application of techniques. Offered concurrently with PUP 4044; graduate students will be assigned additional work.

PUR - PUBLIC RELATIONS

PUR 3000 Principles of Public Relations
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Increases understanding of the theory and practice of public relations, functions in organizations, and role in society. Is the foundation course for all other courses in public relations.

PUR 3100 Writing for Public Relations
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Develops professional-level writing skills expected of beginning public relations practitioners. Students practice writing for different audiences and media, such as preparing memos, letters, new releases, crisis communication plans, features, media kits, speeches and newsletters.

PUR 3402 Public Affairs in Government and Military
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Designed to increase understanding of the role of public affairs in the United States government with an emphasis on the military services. Examines the relationship between the media and the various branches of government. Special emphasis is placed on crisis communication planning and execution within the government.

PUR 4203 Public Relations Law and Ethics
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: PUR 3000

The code of ethics and practice in public relations along with an analysis of ethical issues and trends. Specific legal issues such as privacy, defamation, copyright, and new technology will be covered.

PUR 4400 Crisis Public Relations
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: PUR 3000

Examines crisis public relations planning, preparation, and execution. Focus is on assessment of risk, types of crises, role of and interaction with the media and other publics. Cases are examined to apply what is learned to examples of actual organizational crises. An "ask-the-expert" discussion series presents crisis communication as it relates to corporate, not-for-profit, education, and national-level government public relations.

PUR 4600 Integrated Communication-Management
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: ADV 3000 or PUR 3000

Capstone course for public relations and advertising majors. Emphasis on case study analysis and the management of integrated communication programs. Senior status required.

PUR 4800 Integrated Communication-Research
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023, PUR 3000 (Public Relations majors only); Senior standing in Comm Arts required.

Primary and secondary research methods useful to qualitative and quantitative communication research, applied communication inquiry, and integrated public relations/advertising communication campaigns. Senior standing in Communication Arts required. Organizational Communication majors are not required to fulfill the prerequisites. Permission is required.

PUR 4801 Public Relations Campaigns
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: PUR 3000, PUR 3100

A capstone course designed for graduating seniors, focusing on applying communication and public relations research and theory for a real client. Provides a thorough experience in conducting public relations and integrated communications campaigns and in preparing communication materials. Working in teams, students prepare and conduct the research, planning, implementation and evaluation of an actual campaign for a client. An advanced course requiring full understanding of public relations theory, writing, techniques and research methods. Permission is required. Credit may not be received in both PUR 4801 and PUR 4802.

PUR 4930 Current Issues and Trends in Public Relations
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: PUR 3000, PUR 3100

Focuses on a range of current issues facing the public relations profession from a theoretical and practical perspective. Exploration of selected topics such as emerging trends in the use of technology, diversity and multiculturalism, increased use of social media, and environmental issues impacting the organization. Senior status within the PR major required.

PUR 6XX0 Emerging Topics in Public Affairs
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Examines the complex communication relationships between and among businesses, nonprofit organizations, government agencies, and the media. Focuses on the strategic communication applications in each of these areas.

Q QMB - QUANTITATIVE METHODS IN BUSINESS

QMB 6305 Quantitative Methods for Business
Department: Business Administration - General
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2233 and STA 2023

QMB 6305 is a prerequisite for MAR 6815, ECP 6705 and MAN 6511. Provides students with quantitative skills that are required to make business decisions. These skills involve using statistical, forecasting and estimation techniques. Students are expected to use the subject matter for problem sets and exams.

R RED - READING EDUCATION

RED 3310 Literacy Instruction for the Intermediate Learner
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Materials and methods for teaching basic reading and related study skills; emphasis on teaching mastery of decoding skills, conducting guided reading activities, utilizing a wide variety of reading materials in the classroom and relating basic reading skills to content area instruction; includes observation/ participation in school settings.

RED 3324 Reading/ESOL Methods and Instruction
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Theory and methods for teaching reading at the middle and secondary school level; emphasis on strategies for vocabulary and comprehension, evaluating student progress in reading and integrating reading and study skills into content area instruction across the middle and secondary school curriculum.

RED 4306 ICFE IV - Integrated Reading Curriculum/Field Experience
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: EEC 4302, EEC 4943
Co-requisite: EEC 3800, RED 4944

The focus in ICFE IV is to refine technical skills of teaching and to provide a vehicle for critical, reflective thinking regarding teacher behaviors. This culminates the process of individual students orchestrating the myriad components of the integrated curriculum experience with a focus on implementation of reading systems adopted in local schools.

RED 4542C Assessment and Differentiated Instruction in Reading
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: LAE 3314 and RED 3310

Prepares the pre-service teacher in the area of individualized reading and language arts assessment. Individualizing instruction in the areas of language arts (speaking, listening, reading, and written composition) are major components.

RED 5047 Florida Online Reading Professional Development
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to deliver current, relevant, scientifically-based, and classroom-based information in reading to pre K-12 teachers. Also designed with teachers' and students' needs in mind.

RED 5515 Classroom Reading Assessments
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 6116, RED 6060 for reading education majors, or RED 5047 for Reading Endorsement Students

An exploration into the theories and appropriate assessment practices by classroom teachers.

RED 5657 Foundations of Reading Theory and Language Cognition
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides the student with substantive knowledge of reading theory and language structure and function. Addresses the theoretical foundations for each of the five major components of the reading process. Permission is required.

RED 6060 Foundations of Middle and Secondary Literacy
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Emphasizes reading theory and instruction in the middle and secondary grades based on research and classroom practice. Students will examine how particular theories of literacy impact the instructional practices used when teaching reading and writing.

RED 6116 Foundations of Early Literacy
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Emphasizes reading theory and instruction for early and beginning literacy. Students will examine how particular theories of literacy impact instructional practices used when teaching reading and writing in the Pre K - 5 classroom.

RED 6161 Reading Across the Curriculum
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 6060

Features techniques and activities for assessing needs and teaching comprehension, vocabulary, and study skills in content areas. Integrates theory with practice and is designed for teachers of content area subjects and reading teachers. Prepares teachers to make instructional decisions based on sound theory, reason, applied knowledge and learner needs.

RED 6240 Differentiating Instruction
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 5515

Explores differentiating instruction to meet the needs of all learners and teaches how to prevent or remediate reading difficulties. The focus will be on the interpretation of reading assessment and the implementation of research based instructional practices.

RED 6546 Identifying and Preventing Reading Difficulties
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 5515, RED 6116

Study and clinical experience to develop competence in determining causes and degrees of reading disabilities, recommending specific corrective or remedial instruction to meet specific needs and preparing case studies.

RED 6658 Foundations and Applications of Differentiated Instruction
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Issues related to differentiated reading instruction. Discusses knowledge and skills concerning differentiated instructional theory, classroom applications, and evaluation techniques used in differentiated instruction. This course meets the Florida Reading Endorsement criteria for competencies 4 and 5.

RED 6747 Research and Trends in Reading
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Review of significant research in reading, introduction to techniques and critical analysis of reading research, review and comparison of trends in development of materials, approaches and reading programs.

RED 6866 Practicum in the Clinical Teaching of Reading
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 5515 and RED 6546

Designed to provide a supervised clinical experience in reading assessment and tutoring. Students will conduct a thorough diagnostic screening and provide one-to-one tutoring for a struggling reader.

RED 6911 Action Research: Reading
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 5047
Co-requisite: RED 5047

An in-depth exploration of the major components related to reading instruction. Includes an action research project. Students will identify a classroom-based reading issue, review the related literature, design and implement an action plan, evaluate, and report the results.

RED 6940 Reading Practicum
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: RED 5515, RED 6240

Practical experience in increasing student reading performance with the utilization of appropriate strategies and materials. Emphasizes assessment based instruction for individual and groups of students to prevent, identify, and remediate reading difficulties.

RED 7247 The Organization and Administration of Reading Programs
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Explores the role of the reading supervisor in organizing and implementing reading programs from the pre-elementary through the college level.

REE - REAL ESTATE

REE 4813 Principles of Real Estate Marketing
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: MAR 3023

Real estate from total marketing concept; emphasis on principles of real property ownership, utilization and transfer, development, finance valuation, brokerage, promotion and legislation.

REL - RELIGION

REL 2000 Introduction to Religion
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Broad understanding of the field of religious studies. Special attention is given to the contributions of Eliade, Otto, Keen, Tillich, Freud and others. (Gordon Rule Course: Wrtg) and (General Studies Course: HUM/VAL)

REL 3142 New Perspectives on the Religious Self
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Focus on selected understandings of the nature of the self as a religious being. Various models of the self will be examined.

REL 3145 Women and Religion
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

An examination of the complex relationships that exist between women and religion. The roles and status of women in Indigenous Traditions, Hinduism, Buddhism, Judaism, Christianity, and Islam with special attention paid to fundamentalist forms of religion. The methodology is both comparative and cross-cultural. An important feminist value is to privilege the "experiences of others." To that end, we will hear the voices of women themselves. Beginning with the feminist challenge to male, disembodied, and immutable images of the divine, we will discover how religion both limits and empowers women. Meets Multicultural Requirement. Gordon Rule course (Writing).

REL 3156 Religion and Personality Theory
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Effects of religion on personality development and related issues utilizing such thinkers as Erikson, James, Fromm and Keen. (Gordon Rule Course: Wrtg)

REL 3158 Religious Experience
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Religious experiences and phenomena from the standpoint of particular approaches in psychology and religion. Such topics as human suffering, wholeness, and mystical awareness will be discussed using the thought of Becker, Keen, Freud and others. (Gordon Rule Course: Wrtg)

REL 3213 Studies in Hebrew Scriptures/Old Testament
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Analysis of literature of ancient Israel, interrelation of faith and history, evolution of ethical monotheism from primitive beginnings to oracles of prophets. (Gordon Rule Course: Wrtg)

REL 3243 Studies in the New Testament
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Exegetical study of literature of the early Christian community with emphasis on life and teaching of Jesus and letters of Paul from variety of theological perspectives. (Gordon Rule Course: Wrtg)

REL 3310 Philosophies of the East
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Indian philosophy including concept of Brahman in Vedanta and Yoga meditation. Buddhism in India, China and Japan. Confucian humanism and Taoist mysticism in China. Meets Multicultural requirement.

REL 3607 The Jewish Tradition
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Designed to give the student an overview of Judaism and the Jewish experience. Through the examination of Jewish history, beliefs, literature, symbols, rituals, and customs, the student will gain an understanding of the ancient and continuing Jewish Tradition.

REL 3695 Applied Mysticism
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Will acquaint the student with a variety of Jewish texts over the range of some 3000 years which treat the dual issues of Devekut, mystical connection with the Deity, and Musar, ethical connection with other human beings. Students will look at Torah narratives, Talmudic and Midrashic texts from various periods. Throughout, the students will be challenged to see the connection between mysticism and ethical behavior and the interplay between the two in Jewish literature, culture and spirituality.

REL 3948 Service Learning Field Study II
Department: Clove (Arts & Sciences)
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

REL 4420 Contemporary Theology
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Types of theology: fundamentalism, liberalism and neo-orthodoxy. Current trends: religious atheism (Nietzsche, Altizer), secular theology (Bonhoeffer, Cox), process theology (Whitehead, Chardin), existential theology (Tillich, Bultmann), personalism (Bertocci, DeWolf), liberation theology (Gutierrez, Boff).

REL 4441 Current Religious Issues
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Significant personal and social concerns viewed from religious perspectives: race relations, medical practices, sexuality, war and terrorism, ecological crisis and non-Western religions.

REL 4493 Science, Religion, and Nature
Department: Philosophy & Religious Studies
3.0 sh (may not be repeated for credit)

Explores Eastern and Western religious conceptions of the natural world, and relates them to scientific ways of knowing. Includes a survey of major scientific discoveries and theories that both challenge and inform religious belief, including cosmology, evolution, and global change. Includes an overview of ecumenical dimensions of Eastern and Western spiritual experience and expression. Emphasis is placed on integrating and harmonizing scientific and religious understandings to develop a meaningful, contemporary worldview.

RTV - RADIO/TELEVISION

RTV 3200 Television Production
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Studio operations and equipment; theoretical and technical aspects of television production. Credit may not be received in both RTV 3200 and RTV 3200C.

RTV 3210 Radio Production
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Introduction to the tools and techniques of audio production with emphasis on the practical application of theoretical concepts. Credit may not be received in RTV 3210 and either RTV 3210C or RTV 3240C.

RTV 3301 Broadcast Journalism
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Principles and techniques of radio and television news operation. Credit may not be received in both RTV 3301 and RTV 3304.

RTV 3320C Electronic Field Production
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: RTV 3200

Principles and techniques of basic electronic field production for video, film, CD-ROM and the Internet.

RTV 3700 Broadcast Management and Regulation
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Management issues in the broadcast industry and governmental regulations that apply to that industry.

RTV 3942 Practicum: Television News
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: RTV 3200, RTV 3320C; and either JOU 2100 or MMC 4103

Experience in production of a weekly television news program telecast to the local community.

RTV 4221 Advanced Television Production
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: RTV 3200, RTV 3320C

Applies skills from basic television production and electronic field production in non-news production formats for broadcast on WUWF-TV Channel 4. Production formats include, but are not limited to: interview programs, musical productions, remote event coverage, dramatic anthology, all in either live or taped settings. Will be structured as an actual job. Students will participate in every production setting over the course of a semester in every capacity.

RTV 4323 Documentary Television Practicum
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: RTV 3200, RTV 3320C

Introduces, defines, and exposes the student through hands-on approach to documentary style television productions by exploring the six foundational styles: Poetic, Expository, Observational, Participatory, Reflexive, and Performative.

S SCE - SCIENCE EDUCATION

SCE 4310 Teaching Science in the Elementary School
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Processes of science requisite to teaching elementary school science; emphasis upon structure and objectives of school science programs, methods of instruction assessment, and experimental programs. Material and supply fee will be assessed.

SCE 4320 Teaching Science in the Middle and Secondary Schools
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Methodology requisite to the effective teaching of science at the middle school level; emphasis on methods and objectives of the middle school science program, use of lab experiences with middle school students, computer strategies and software evaluation, evaluating student progress, current research in science education, and practice teaching experiences; includes participation in school setting. Admitted to Teacher Education and permission is required. Material and Supply Fee will be assessed.

SCE 4362 Special Methods in Teaching Secondary and Junior High School Science
Department: Chemistry
3.0 sh (may not be repeated for credit)

Curriculum skills, methods, and philosophy of science teaching. Lecture, discussion, and field experience. Assessment of science competency in area of specialization. Meets Florida state requirements for Special Methods in Science. Twenty four semester hours of science courses are needed prior to taking this course. Permission is required. Credit may not be received for both SCE 4362 and SCE 4631.

SCE 5445 Physical Science in Motion: Classroom Applications
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Participants use simple software simulations. Physical science activities focus on relationships between gravity, friction, aerodynamic principles and energy. Three free simple-to-use software programs from NASA Glenn are featured and: 1) control the shape, size, and inclination of the airfoil and atmospheric conditions in which you are "flying"; 2) teach aerodynamics by controlling the conditions of a big league baseball pitch (speed, spin, etc.); and 3) model the design and testing of jet engines, flight conditions, and engine size. Applications to "force and motion" are another focus. The software and material will teach concepts simply, visually and in an exciting manner.

SCE 5621 Learning Reading Strategies for Middle School Science
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to help teachers focus on specific reading comprehension strategies to help students in grades 6-9 become better readers of science texts. Weekly mini-lessons provide opportunities to integrate explicit texts and activities which focus on modeling what good readers do through a think-aloud strategy. Within the context of rich, JASON video and multimedia components, you will collaborate, practice, and learn these techniques with colleagues in both science and language arts.

SCE 5805 Electricity and Magnetism
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Explores electricity and magnetism by addressing basic concepts, fundamental misconceptions, and the intimate relationship between magnetism and electricity. Topics include electrostatic charging, charge separation and electric pressure, current electricity and the circuits through which it moves, Ohm's Law, schematic diagrams, and current flows from wall outlets. Permission is required.

SCE 5806 Transfer of Energy
Department: Teacher Education
3.0 sh (may not be repeated for credit)

The National Science Education Standards' approach to energy and its transformation between forms. Topics include common misconceptions in the types and characteristics of energy forms, transformation of energy fundamentals of heat, the Sun and an interdisciplinary approach to light energy, and everyday energy transformation devices such as car engines and air conditioners. Permission is required.

SCE 5807 Forces and Motion
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Engages participants in reviewing the history and development of concepts associated with why things move and how they move in the mechanical world. Simple demonstrations and hands-on inquiry activities connect each week's content area with real-world examples.

SCE 5815 Cell Biology
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Updates teachers on the most recent advances in cytology, genetics, and human biology and provides access to the most current online resources. While learning the nature of the basic unit of life, participants will explore the potential for cells in extreme environments like the deep ocean and deep space. Also presents various career opportunities in modern medicine..

SCE 5834 Earth's History
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines the geological history of Earth, including its physical origins and development as well as the origins and evolution of life on the planet. Is cross-disciplinary when appropriate and is especially designed for secondary school teachers who are currently teaching or who are preparing to teach courses in middle and high school Earth science.

Combines technical explanations of geologic processes and phenomena in addition to an explanation of the nature and mechanisms that drive evolution. The original course content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics presented during the course.

SCE 5835 Structure of the Earth
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines the physical composition of our planet and the forces (both internal and external) that continuously shape it. Is cross- disciplinary when appropriate and is especially designed for secondary school teachers who are currently teaching or who are preparing to teach courses in middle and high school Earth sciences. Combines technical explanations of geological processes and phenomena with an explanation of the physical composition of matter, minerals, and various rock types. The original content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics presented during the course.

SCE 5836 Earth in the Solar System
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines the Earth's "place in space" and its relationship to the Sun and other planets of the solar system. Is cross-disciplinary when appropriate and is especially designed for secondary school teachers who are currently teaching or who are preparing to teach courses in middle and high school Earth science. Combines technical explanations of astronomical processes and phenomena with an explanation of the physical composition of the other planets, moons, and celestial objects found in our solar system. The original content documents are supplemented with original animated graphics, other web-based resource links, and self-directed reviews of literature on various discussion topics presented during the course.

SCE 5842 Aquatic Ecology for Teachers
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Aquatic Ecosystems engages participants in reviewing and comparing aquatic environments, investigating the dynamics of ecological interactions, and addressing the impact of human activity. Each week's content addresses main science concepts, illustrative examples, inquiry activity ideas, resource extensions, opportunities to learn more, and connections to teaching and learning in grades 4-9 science classrooms.

SCE 5845 Rainforests-Endangered Ecosystems
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Explores the nature of rainforests and their role in the biosphere. It investigates the flora, fauna, and human populations that inhabit rainforests, including how they interact with each other and the abiotic factors of the ecosystem, their adaptations, and factors affecting their evolution. Students examine the importance of rainforests and the threats directed at them. They also take a virtual trip through Olympic National Park's Hoh Rainforest to show the connections between temperate and tropical rainforests.

SCE 5853 Chemistry Through Inquiry
Department: Teacher Education
3.0 sh (may not be repeated for credit)

The course focuses on the National Science Education content standards for physical science and "science as inquiry" for K-4 and 5-8. As teachers do hands-on science investigations, read science background, and participate in discussion they will enhance their own scientific content knowledge and develop an inquiry-based approach to science teaching.

SCE 5875 Ocean Science
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Examines the physical, chemical, and biological factors that influence the ocean. It supports content with a discussion of the methods through which students can achieve ocean-related content outlined in the National Science Education Standards. It uses text-based content, participant interaction, analysis of current research, web search, and implementation of activities to improve the skills of teachers. Credit may not be received in both SCE 5875 and SCE 5824.

SCE 6017 Science Instruction in the Elementary School
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Theory and practice of elementary school science education, including history, philosophy, research, curricula, and instructional strategies. Demonstration teaching, individualized instruction and action research. Credit may not be received for both SCE 6017 and SCE 6117.

SCE 6265 Science Instruction in the Middle and Secondary School
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Co-requisite: EDM 6944 or ESE 6944

Assists middle and secondary level teachers to develop theoretical understanding and skills necessary to teach in a manner consistent with current reform efforts in science education. Focuses on three components of understanding science teaching and learning: 1) the nature of science, its history and philosophy, 2) how students learn science, and 3) the role of the teacher in creating a safe learning

environment. Admission to Teacher Education and permission is required. Credit may not be received in both SCE 6265 and SCE 6625. Material and Supply Fee will be assessed.

SCE 6446 Energy and the Environment Workshop
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Activities related to the teaching of energy through a thematic approach. Discussions and activities about the production, transmission, and distribution of energy, alternative energy sources, energy conservation, and the use of a hands-on/minds-on, collaborative approach to teaching are included. Students are required to complete field trips as scheduled. Credit may not be receive for both SCE 6446 and SCE 6341.

SCE 8980 Ed.D. Dissertation in Biological Science
Department: Biology
1.0-18.0 sh (may be repeated for up to 36.0 sh of credit)

Major independent research in biological science education designed especially for candidates in the Ed.D. curriculum and instruction program with specialization in science. Dissertation will reflect intensive research produced by the student and collaboratively developed with the student's graduate committee. Graded on satisfactory/unsatisfactory basis only. Admission to candidacy and completion of all other doctoral program requirements are required. Permission is required.

SDS - STUDENT DEVELOPMENT SERVICES

SDS 6345 Educational and Vocational Guidance
Department: Psychology
3.0 sh (may not be repeated for credit)

Socio-psychological forces influencing career choice; identification, selection and use of educational and career guidance resources; use of decision-making concepts and skills in choosing educational and occupational alternatives.

SDS 6425 PK-12 Guidance and Counseling for Diverse Populations
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)
Prerequisite: EDF 6218, EDF 6481

Designed to enable guidance counselors to consult with teachers and students to address race, class, gender, sexual orientation, disabilities, and other social injustice differences in children and adolescents.

SDS 6620 Administration, Curriculum, and Instruction for Guidance Counselors
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

Designed to provide students with an introduction to the counselor's role in the school improvement process and the philosophies of educational reform and accountability. Examines the role of classroom management and organization to promote PK-12 learning. Additionally, introduces the basic technologies that can be used by guidance counselors to facilitate student learning.

SDS 6642 A Survey of Literature in College Student Personnel
Department: COP Graduate Education
3.0 sh (may not be repeated for credit)

A seminar style survey of seminal books and articles in the field of college student personnel services (student affairs leadership and administration).

SLS - STUDENT LIFE SKILLS (LEARNING)

SLS 1106 Freshman Year Experience
Department: Student Life Skills
2.0 sh (may not be repeated for credit)

Assists first-time-in-college students to make a favorable transition to the university setting, to adjust to the academic demands that will be made of them within a university environment, and to investigate the possibilities of personal and intellectual growth.

SLS 1109 Academic Foundations Seminar
Department: Student Life Skills
3.0 sh (may not be repeated for credit)

An introduction to students' first two years at the University that is designed to prepare them for a successful college experience. Provides the necessary knowledge and experiences for them to be successful personally and academically during their college years and beyond.

SLS 1281 Introduction to Diversity: Diversity Consciousness-The American College as a Microcosm of Multicultural America
Department: Student Life Skills
2.0 sh (may not be repeated for credit)

Designed to expand students' awareness of the cognitive knowledge and skills necessary to effectively interact with and serve culturally diverse populations. Will particularly emphasize attitudes and competencies that are important to their lives beyond the college, as well as in their interactions with others. Students will be asked to select one of the listed cultures for in-depth study. Students will be expected to be consistently involved in discussions, learning projects, writings, relevant web sites and videos related to that culture. Meet Multicultural requirement.

SLS 2531 Academic Retention Seminar
Department: Student Life Skills
2.0 sh (may not be repeated for credit)

Assists students with their re-entry into the University following academic suspension by self-assessment of previous academic performance and development of a personalized academic plan. Permission is required.

SLS 2942 Disney Field Experience
Department: Student Life Skills
1.0 sh (may not be repeated for credit)

Paid work experience at Walt Disney World coupled with a College Program Course of the students' choosing. Engages students in a rigorous and challenging professional academic program to advance career research with an emphasis on exploration, analysis, and application. Graded on satisfactory/unsatisfactory basis only. Permission is required.

SLS 2948 Service Learning Field Study I
Department: Student Life Skills
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SLS 3948 Service Learning Field Study II
Department: Student Life Skills
1.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SOP - SOCIAL PSYCHOLOGY

SOP 3004 Social Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Survey of theory, method, and research results in areas of social psychology, such as attitude formation and change, social perception/ cognition, impression formation, social influence, interpersonal attraction and relationships, aggression and pro-social behavior, and group dynamics. Application in areas such as work or health behavior, legal settings, or environmental psychology may also be included.

SOP 3730 Psychology, Culture, and Society
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

The study of social processes within a cultural context. Topics include non-verbal behavior, the construction of social reality, communication, personal relationships, social influence, discrimination and prejudice, group dynamics, organizational culture and behavior, implications for health and wellness.

SOP 4702 Psychology and Gender
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: PSY 2012

Addresses the construction of gender as a psychological construct. The psychological construct of gender is considered from biological, social, and individual perspectives. Lecture, discussion, readings, and participative learning methods are used.

SOP 5609 Current Issues in Industrial-Organizational Psychology
Department: Psychology
1.0 sh (may be repeated for up to 2.0 sh of credit)

Topics of current interest in industrial-organizational psychology. May include panel discussions, site visits to local organizations, guest speakers, individual student research presentations, or discussions led by the professor. Industrial-organizational psychology students must enroll for two consecutive terms.

SOP 6069 Advanced Social Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: SOP 3004

Contribution of social psychology to understanding of human behavior: emphasis is on theory and research in major areas such as attitude, perception and attribution, attraction, altruism, group behavior, etc.

SOP 6668 Organizational Change and Development
Department: Psychology
3.0 sh (may not be repeated for credit)
Prerequisite: INP 6397 or SOP 6669

Organizational development: change agentry, role of self in O.D., change theory, feedback methodology, relationship building, team building and quality, Lab learning methodology. Expanded emphasis on field work and

application can follow as MAN 6943. May not be taken for credit by students having credit for MAN 6285.

SOP 6669 Advanced Organizational Psychology
Department: Psychology
3.0 sh (may not be repeated for credit)

Seminar reviewing much of the recent research literature in areas of organizational psychology, including leadership, motivation, job performance, job satisfaction, role behavior in work settings and communications. May not be taken for credit by students having credit for MAN 6209.

SOP 6776 Human Sexuality and Sex Therapy
Department: Psychology
3.0 sh (may not be repeated for credit)

Major emphasis is given to research regarding a broad range of sexual dysfunctions and analyses of specific therapeutic interventions. Various styles of sexual expression are also examined in terms of their social and psychological implications. Assumes prior knowledge of counseling theory and practice.

SOW - SOCIAL WORK

SOW 2192 Understanding Relationships in the 21st Century
Department: Social Work
3.0 sh (may not be repeated for credit)

Human relationships with a focus on the interrelatedness and effects of underlying theoretical principles as they relate to individual, family and group interactions. (General Studies: SS/BEH)

SOW 3103 Human Behavior in Social Environment
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: Any human biology or anatomy class.

Social personality and cognitive development, normal and abnormal, normative and non-normative crisis and gender issues with an emphasis on cultural diversity. Importance of social work intervention and treatment with individual, family, and community.

SOW 3113 Human Behavior in Organizations and Communities
Department: Social Work
3.0 sh (may not be repeated for credit)

Introduces the future practitioner to the concept of change agent within organizations, institutions, and communities. Prepares the student with academic concepts on community organization as a prelude to the practice course. Emphasis is placed on the student's ethical responsibilities to the client, organizational structure of human service agencies and the elements common to them. Students will understand structural and organizational differences between profit and nonprofit agencies. Students will experience organizational obstacles to planned change. The dynamics of gender, class, race, ethnicity, and sexual orientation are examined in relationship to how they are played out within the organizational context.

SOW 3203 Introduction to the Field of Social Work
Department: Social Work
3.0 sh (may not be repeated for credit)

Survey of the social work profession from its roots to contemporary practice with a descriptive focus on its values, knowledge bases, skills, and fields of practice. Emphasis is on generalist social work and social policy structures which sustain society. Introduces the relationship of social problems to social policy and to social service delivery systems.

SOW 3313 Work With Individuals and Families
Department: Social Work
3.0 sh (may not be repeated for credit)

One of four practice courses designed to prepare the student for generalist social work. Emphasis is on the values, knowledge, and skills necessary for effective assessment and intervention on the micro level, and is reflected in several areas, including the worker/ client relationship, assessment, strategies and implementation techniques, the social worker's use of self, the phases of the helping process, and evaluation. Using the systems approach, emphasis is placed on social, cultural familial, and environmental influences on the functioning of individuals and families. Permission is required.

SOW 3314 Case Management
Department: Social Work
3.0 sh (may not be repeated for credit)

Designed to help students develop a general overview of case management and how it is defined and practiced in a variety of settings, such as juvenile justice programs, mental health programs, and nonprofit community agencies.

SOW 3322 Work With Groups
Department: Social Work
3.0 sh (may not be repeated for credit)

One of a series of four courses designed to prepare a student for generalist social work practice. The student will acquire the knowledge base, values and skills necessary for working with groups at the beginning professional level. The focus will be on developing the knowledge base, values and practice skills needed to use the problem solving approach to work with diverse populations within various types of groups. Stages of groups and activities that can enhance the group process will be explored. Permission is required.

SOW 3350 Interviewing and Recording
Department: Social Work
3.0 sh (may not be repeated for credit)

Practice in interviewing techniques and in precise, descriptive, and accurate writing techniques for practitioners in social work, psychology, and other helping professions. (Gordon Rule Course: Wrtg)

SOW 3503 Introduction to Generalist Practice
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: SOW 3103, SOW 3203, SOW 3350

One of four practice courses designed to prepare the student for generalist social work. Through agency experience, classroom instruction, and introspective discussion, students develop self-awareness, beginning skills and knowledge, and a professional attitude. Students are introduced to a social agency setting, the varying needs and vulnerabilities of clients served, the problem solving process, and the development of basic knowledge and skills necessary in helping relationships with systems of various sizes. Restricted to social work majors. Permission is required.

SOW 3620 Practice with Culturally Diverse Populations
Department: Social Work
3.0 sh (may not be repeated for credit)

Explores the differences of experience, needs and beliefs of culturally diverse population within our society, and provides a theoretical foundation from which to develop differential assessment and implementation skills essential to culturally sensitive practice. Patterns, dynamics and consequences of discrimination, economic deprivation and oppression are discussed with special emphasis on the impact for people of color, women, gay and lesbian, and disabled populations. Meets Multicultural requirement.

SOW 3650 Introduction to Child Welfare
Department: Social Work
3.0 sh (may not be repeated for credit)

Prepares social workers and others to enter the field of child welfare with a better understanding of the history of this movement and the types of services and programs designed to assist children and families. Also introduces and provides information to any interested person regarding the social problems of children and the availability of services to children in need.

SOW 3948 Service Learning Field Study II
Department: Social Work
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

SOW 4111 Adolescents At Risk
Department: Social Work
3.0 sh (may not be repeated for credit)

Explores environmental and societal factors that contribute to risky behaviors of adolescents such as substance use, delinquency, sexual activity, and violent behavior, and others. Characteristics of high risk and low risk youth are discussed including the relationship of these characteristics to adolescent development. Prevention, intervention, and treatment approaches are discussed.

SOW 4141 Social Aspects of Family Violence
Department: Social Work
3.0 sh (may not be repeated for credit)

Introduces basic concepts, principles, and methods for understanding and identifying family violence. Topics include an historical overview; the impact of domestic violence on the community and on the woman, children, and man involved; the identification of emotional, physical, and sexual aspects of abuse; safety planning and levels of lethality; an introduction to effective intervention.

SOW 4232 Analysis of Social Service Policy
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: SOW 4403

Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills. Offered concurrently with SOW 5218; graduate students will be assigned additional work.

SOW 4233 Human Diversity and Social Justice
Department: Social Work
3.0 sh (may not be repeated for credit)

Examines the impact of social, economic, and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political, and economic justice. Offered concurrently with SOW 5629; graduate students will be assigned additional work

SOW 4242 Families and Family Treatment
Department: Social Work
3.0 sh (may not be repeated for credit)

Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 5243; graduate students will be assigned additional work.

SOW 4303 Prevention and Intervention Strategies for Children Ages 0-5 and Their Families
Department: Social Work
3.0 sh (may not be repeated for credit)

Generalist practice methods for children 0-5 and their families. An overview of developmental, psychological, sociological and legal issues. Strategies for prevention and intervention. Offered concurrently with SOW 5309; graduate students will be assigned additional work.

SOW 4403 Social Work Research Foundations
Department: Social Work
3.0 sh (may not be repeated for credit)

An introduction to research methodology in the evaluation of social work practice and program evaluation. Offered concurrently with SOW 5404; graduate students will be assigned additional work.

SOW 4510 Social Work Field Instruction
Department: Social Work
1.0-9.0 sh (may be repeated for up to 9.0 sh of credit)
Prerequisite: SOW 3103, SOW 3113, SOW 3203, SOW 3313, SOW 3322, SOW 3350, SOW 3503, SOW 3620, SOW 4232, SOW 4332, and SOW 4403.
Co-requisite: SOW 4522

Field education experience in social service agency with a qualified professional supervisor. A minimum of 400 hours is required. Restricted to social work majors. Graded on a satisfactory/unsatisfactory basis only. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required. Material and Supply Fee will be assessed.

SOW 4522 Senior Seminar
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: SOW 3103, SOW 3113, SOW 3203, SOW 3313, SOW 3322, SOW 3350, SOW 3503, SOW 3620, SOW 4232, SOW 4332 and SOW 4403.
Co-requisite: SOW 4510

Designed to integrate previously learned beginning generalist practice concepts, values, knowledge, attitudes and skills with practice. Eighteen semester hours of required social work courses, 2.5 GPA in major, and permission is required.

SOW 4674 Social Issues and Intervention Strategies in Social Work Practice with Older Adults
Department: Social Work
3.0 sh (may not be repeated for credit)

Embraces an interdisciplinary approach to intervention strategies to eliminate or ameliorate problems/crises faced by aging clients. Demographics are addressed. Offered concurrently with SOW 5675; graduate students will be assigned additional work.

SOW 4700 Substance Abuse Prevention and Treatment: Special Issues
Department: Social Work
3.0 sh (may not be repeated for credit)

Historical, legal, ethical, and social issues relating to drug abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 5710; graduate students will be assigned additional work.

SOW 4740 Dimensions of Death and Dying: Special Issues
Department: Social Work
3.0 sh (may not be repeated for credit)

Assists the student, both personally and as a professional helping others, to approach death and dying with enhanced knowledge, sensitivity, and less dread and denial. Examines historical, social, legal, cultural, and interpersonal aspects of death and bereavement within the context of professional practice. Offered concurrently with SOW 5745; graduate students will be assigned additional work. Credit cannot be received for both SOW 4682 and SOW 4740.

SOW 5105 Human Behavior in the Social Environment I
Department: Social Work
3.0 sh (may not be repeated for credit)

Provides an understanding of social functioning throughout all phases of the life cycle by examining the interaction between the biological deterrents of growth and development and various systems of our social environment. Focus is on the interrelatedness and effects of individuals, families and groups and of genetic, emotional and societal systems and values that foster or impede social functioning.

SOW 5106 Human Behavior in the Social Environment II
Department: Social Work
3.0 sh (may not be repeated for credit)

Familiarizes students with the academic concepts of macro assessment and community organization through planned change processes. Emphasis is placed on the social worker's role as a change agent, strategies and models for community organizing, and ethical responsibility to the client, organization, community, and the profession.

SOW 5218 Analysis of Social Service Policy
Department: Social Work
3.0 sh (may not be repeated for credit)
Co-requisite: SOW 5404

Examines social welfare policy as a central concern to social work. Addresses policy practice. Includes improvement of human services delivery systems through the application of problem solving, critical thinking and other necessary skills. Offered concurrently with SOW 4232; graduate students will be assigned additional work.

SOW 5243 Families and Family Treatment
Department: Social Work
3.0 sh (may not be repeated for credit)

Designed to define and understand contemporary family forms and family functions, both normative and in crisis, and introduces modalities for assisting troubled families. Addresses such issues as: the impact of the family life cycle, strategies and goals of family treatment, single parent families, gay and lesbian couples and families, and families with chronically and terminally ill members. Offered concurrently with SOW 4242; graduate students will be assigned additional work.

SOW 5305 Generalist Practice I
Department: Social Work
3.0 sh (may not be repeated for credit)

First course in a two course sequence which covers generalist social work practice. Basic generalist practice skills with individuals, families, and groups. Basic communications and interviewing skills are introduced and practiced. Tasks and skills required in the beginning practice: preparation, engagement, first interviewing skills, and case documentation. The process of collecting relevant social, psychological, cultural, economic, and biological data from individuals, families, and groups and organizing and analyzing data for problem formulation. Historical and contemporary perspectives of the case management process are highlighted focusing on advocacy roles. Practice skills and the application of those skills through the use of interactive exercises and role plays.

SOW 5309 Prevention and Intervention Strategies for Children Ages 0-5 and Their Families
Department: Social Work
3.0 sh (may not be repeated for credit)

Generalist practice methods for children 0-5 and their families. An overview of developmental, psychological, sociological and legal issues. Strategies for prevention and intervention. Offered concurrently with SOW 4303; graduate students will be assigned additional work.

SOW 5324 Generalist Practice II
Department: Social Work
3.0 sh (may not be repeated for credit)

Introduces the knowledge base, values and skills necessary for working with groups at the beginning professional level. Develops the knowledge base, values, principles, and practice skills needed to work with diverse populations within various types of groups. Stages of groups and activities will be explored that can enhance the group process and its purpose towards achieving its objectives.

SOW 5404 Social Work Research Foundations
Department: Social Work
3.0 sh (may not be repeated for credit)

An introduction to research methodology in the evaluation of social work practice and program evaluation. Offered concurrently with SOW 4403; graduate students will be assigned additional work.

SOW 5532 Foundation Year Field Instruction and Integrative Seminar I
Department: Social Work
3.0 sh (may not be repeated for credit)

Integrates foundation curriculum social work course content and 400 hours field education experience in order for students to function as generalist social work practitioners. Issues related to social work values and ethics, diversity, social and economic justice, populations at risk, human behavior and the social environment, social welfare policy and services, practice and research are examined within the context of the student's field education experiences. Graded on a Satisfactory/ Unsatisfactory basis only. Permission is required. Material and Supply Fee will be assessed.

SOW 5629 Human Diversity and Social Justice
Department: Social Work
3.0 sh (may not be repeated for credit)

Examines the impact of social, economic and political environments on diverse populations specifically race, gender, age, ethnicity, culture, class, sexual orientation, religion, and physical and mental ability. Integrates the key elements of the profession of social work through the filter/lens of social, political and economic justice. Offered concurrently with SOW 4233; graduate students will be assigned additional work.

SOW 5675 Social Issues and Intervention Strategies in Social Work Practice with Older Adults

Department: Social Work
3.0 sh (may not be repeated for credit)

Embraces an interdisciplinary approach to intervention strategies to eliminate or ameliorate problems/crises faced by aging clients. Demographics are addressed. Offered concurrently with SOW 4674; graduate students will be assigned additional work.

SOW 5710 Substance Abuse Prevention and Treatment: Special Issues
Department: Social Work
3.0 sh (may not be repeated for credit)

Historical, legal, ethical, and social issues relating to substance abuse prevention and treatment. The family unit will serve as a basic focus for the area of prevention. Various treatment approaches will be covered from outpatient counseling to therapeutic communities. Offered concurrently with SOW 4700; graduate students will be assigned additional work.

SOW 5745 Dimensions of Death and Dying: Special Topics
Department: Social Work
3.0 sh (may not be repeated for credit)

Assists the student, both personally and professionally helping others, to approach death and dying with enhanced knowledge, sensitivity, and less dread and denial. Examines historical, social, legal, cultural, and interpersonal aspects of death and bereavement within the context of professional practice. Offered concurrently with SOW 4682; graduate students will be assigned additional work. Credit cannot be received for both SOW 5687 and SOW 5745.

SOW 5757 The History, Philosophy, and Theory of Social Work Practice
Department: Social Work
3.0 sh (may not be repeated for credit)

Introduces the student to the Social Work Profession and the history, philosophy, theory, and development of social work practice. Perspectives on social welfare, social work as a profession, and core concepts will be introduced. Content will cover aspects of social work practice including poverty, child welfare, criminal justice, health and mental health, homelessness, and aging.

SOW 6125 Psychopathology for Social Work
Department: Social Work
3.0 sh (may not be repeated for credit)

Patterns of human behavior and psychosocial functioning commonly conceptualized as psychopathology. Addresses such concepts as function, mental health, mental illness, normality and abnormality. Prevalent categories of psychiatric disorders are considered as to their labeling process, differentiating characteristics, explanatory theories and relevance for social work practice.

SOW 6344 Social Work Practice with Families in Communities
Department: Social Work
3.0 sh (may not be repeated for credit)

Prepares students for advanced practice that strengthens family systems and their functioning within the larger social system. Macro level problems are considered from a global perspective as well as in context of local community partnerships and regional perspectives. Describes man-made and natural disasters and their impact on families within the larger ecological context of community.

SOW 6348 Theories and Models of Social Work Practice
Department: Social Work
3.0 sh (may not be repeated for credit)

Theoretical foundations and practice techniques which underlie social work practice. Course critically examines the theoretical bases, underlying assumptions, and empirical status of different models with specific emphasis on how they address socio-cultural issues with diverse populations and align with the values of the social work profession.

SOW 6432 Evaluation of Social Work Practice
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: SOW 4403 and S0W 5404

Practice evaluation using simple subject design and program evaluation that is grounded in social science and social work research literature. Particular attention will be paid to the ethical issues of conducting research, especially with oppressed or vulnerable populations.

SOW 6475 Applied Research
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: SOW 5404, SOW 6432

Students plan, design, and conduct a research project in conjunction with the student's field placement. Special emphasis is on the conduct and use of empirical research in applied settings.

SOW 6535 Advanced Year Field Instruction and Integrative Seminar I
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: Foundation Year coursework or Advanced Standing Status

Integrates theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work

curriculum. Graded on a Satisfactory/Unsatisfactory basis only. Material and Supply Fee will be assessed.

SOW 6536 Advanced Year Field Instruction and Integrative Seminar II
Department: Social Work
3.0 sh (may not be repeated for credit)
Prerequisite: SOW 6535

This is the second of two advanced master's level field internship and integrative seminars. Assists social work graduate students in integrating theoretical models and concepts with practical experience gained in concurrent field education. Integrates skills and knowledge acquired through the entire social work curriculum. Graded on a Satisfactory/Unsatisfactory basis only. Material and Supply Fee will be assessed.

SOW 6548 Advanced Seminar in Clinical Social Work Practice
Department: Social Work
3.0 sh (may not be repeated for credit)

Capstone course in clinical-community social work practice. Student analysis of practice with individuals, families, and group through a written and oral presentation of case material. Focus is on refinement of intervention skills relying on field practicum experience for integration of learning. Integration of knowledge from the Clinical Practice courses and Field Instruction. Students will prepare and present a case from their internship for oral presentation and demonstrate ability to organize and select appropriate treatment strategies for a specific client, family, or group. A broad range of field placements will provide diverse clients and a range of clinical issues. Students are expected to show evidence of critical thinking and self-awareness in written and oral presentations.

SOW 6618 Clinical Practice I
Department: Social Work
3.0 sh (may not be repeated for credit)

Builds on the knowledge base of generalist social work practice. Emphasizes advanced assessment of clients across the life span, trauma assessment, and beginning evaluation of practice skills. Treatment planning with individuals, families, and groups is stressed. Building on the generalist practice base for analyzing and interpreting bio-psyho-socio-spiritual content, interpreting and implementing professional values and ethics, and utilizing the professional helping relationship. Introduces an advanced clinical practice base of clinical-community social work.

SOW 6619 Clinical Practice II
Department: Social Work
3.0 sh (may not be repeated for credit)

Clinical decision-making and advanced clinical interventions by building on a generalist approach to social work practice. Utilizes the clinical community concentration prerequisites to examine normal development and psychopathology as a foundation for advanced practice. Examines specific theories and models of intervention with individuals, families, and groups that can be tailored to client needs. Addresses work with clients across the life cycle with diverse issues. The impact of poverty, racism, sexism, and manifestations of institutionalized oppression upon clients and workers are addressed at an advanced level. Methods of enhancing adaptive functioning and resiliency are emphasized. Students will be expected to demonstrate clinical expertise, an understanding of social work ethics and values, incorporate client preferences, utilize critical thinking skills, and apply empirical evidence to practice decisions.

SPC - SPEECH COMMUNICATION

SPC 2608 Basic Communication Skills
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Emphasizes the link between the fundamental theories in speech communication and effective public speaking. Includes practical training and study in public presentation skills, audience analysis, speech construction and problem solving using lecture and experiential learning format. Credit may not be received in both SPC 2608 and SPC 2016. (General Studies Course: HUM/VAL)

SPC 3301 Interpersonal Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Emphasizes the link between interpersonal communication skills and relationship building in personal and professional contexts. Includes components on self awareness, impression management, rapport building, developing intimacy, managing conflict, ethical use of interpersonal power, diversity issues, leadership, and using technology to facilitate interpersonal communication. Involves hands-on service learning project that provides the opportunity to practice interpersonal skills in a professional setting.

SPC 3425 Group and Team Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)
Prerequisite: SPC 2608

Focuses on appropriate and effective communication for task-oriented teams. Includes components on building cohesion, managing group conflict, valuing diversity, principled leadership, problem analysis, information gathering, and conducting focus group interview. Promotes development of critical thinking, leadership skills, team-based problem solving skills and use of communication technologies through hands on student learning project.

SPC 3593 Practice in Forensics
Department: Communication Arts
1.0-3.0 sh (may be repeated for up to 10.0 sh of credit)

Active forensics participation through library research, topic analysis, discussion, practice and travel to intercollegiate tournaments. Permission is required. Credit may not be received in both SPC 3593 and SPC 3594.

SPC 3605 Speech Writing, Analysis, and Delivery
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Practical application in writing, analyzing, and delivering speeches for a variety of professional and social rhetorical situations.

SPC 4513 Argumentation and Debate
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Provides studies in the theories of argumentation and debate, with many opportunities for practice. Students will be introduced to a variety of formal and informal debate formats. Theories of argumentation drawn from classical & contemporary sources, with application to practice, including: arrangement/construction, evaluation, oral delivery, and appreciation of forms or argument with consideration of their logical, ethical, and persuasive force. The content includes coverage of the fundamental principles and practices of critical reasoning and public logic. Designed for students interested in legal, academic, professional or political realms of communication and advocacy.

SPC 4540 Propaganda and Persuasion
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Explores persuasion theory of persuasive activity at a variety of turns in the modern world. Special focus is on social movements, political campaigns and advertising. Seeks to gain a clearer understanding of how persuasive strategy works, from where it emerges and why and how we are affected by it.

SPC 4640 American Public Address
Department: Communication Arts
3.0 sh (may not be repeated for credit)

The character of public discussion has been the key factor in the construction of community in the United States. Public discourse defines the fashion and terms in which we shape communities, including how we legitimate leaders, grant authority and create public space. This course is about the variety of ways in which Americans have used their voices to live their lives in communities. Over the 265 years covered by this course, the variety is a rich mix of voices which in different ways understood and responded to the world they experienced.

SPC 4650 Political Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

An introduction to the field of political campaign communication, including advertising, speech making, debates, and journalist coverage of campaigns. Course dedicates a significant amount of attention to strategic communication in campaign contexts.

SPC 4651 Rhetoric of Social Movement
Department: Communication Arts
3.0 sh (may not be repeated for credit)

The nature and function of the rhetoric of social movements in American society. Social movements are communication events and processes in which persuasion is pervasive. They rely on communication events to retain their relevance in the society. An exploration into social movement development and function from a communication perspective. Special focus is lent to the nature of argumentation, language and ideology.

SPC 4680 Rhetorical Criticism
Department: Communication Arts
3.0 sh (may not be repeated for credit)

The rationale, methods, and applications of rhetorical criticism. Goal is to improve understanding and evaluation of real-world persuasive communication. Lecture and reading materials are divided into two main units. First is the general nature of both rhetoric and criticism, providing a basic conceptual framework for the identification and analysis of rhetorical artifacts. Second is a survey of nine contemporary critical approaches; cluster criticism, fantasy-theme criticism, feminist criticism, genre criticism, ideological criticism, metamorphic criticism, narrative criticism, pentadic criticism, generative criticism.

SPC 4710 Intercultural Communication
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Explores issues related to intercultural communication processes. Considers the important role of context (social, cultural, and historical) in intercultural interactions. The goal is to develop an understanding of the process of communicating across cultural boundaries. Operates from the premise that culture is both a producer and product of communication, and, therefore, an appreciation of communication processes is an essential factor in promoting positive intercultural relations.

SPC 6XX0 Strategic Approaches to Presentational Speaking
Department: Communication Arts
3.0 sh (may not be repeated for credit)

Emphasizes advanced rhetorical theory, executive-level presentational speaking skill set development, and a diverse array of analytic tools used for context and public audience analysis. Focus is on the strategic application of these analytic and performative tools to instances of public and professional advocacy.

SPM - SPORTS MANAGEMENT

SPM 3024 Current Issues in Sports Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Exposes student to current issues in the sports industry and will provide the students with an in-depth knowledge of the various issues in sport. Students will be prepared to become agents of change in the sport industry through discussions and debates on the relevant issues in the sports world. Credit may not be received in both SPM 3024 and PET 3483.

SPM 3104 Sport Facility and Event Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Provides students with an introduction to the planning and management of sports facilities. Focuses on elements of planning, design, and management, while examining functions related to maintenance, security, operations, and evaluation. Will emphasize problem solving utilizing class discussions, guest speakers, and facility site visitations as feasible. Credit may not be received in both SPM 3104 and PET 3104.

SPM 3306 Sports Marketing
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

Topics and issues involved in the promotion and marketing of sporting events, products, and services will be discussed. Examination of the evolution, theories, and practical applications of marketing strategies and current issues relative to social, political, ethical, and cultural environments will be presented. Credit may not be received for both SPM 3306 and PET 3464.

SPM 4723 Sport Law and Risk Management
Department: Health, Leisure, & Exercise Science
3.0 sh (may not be repeated for credit)

An integration of the various areas involved in sport pertaining to legal liability issues and risk management techniques in coaching, facility management, and sport management. Credit may not be received for both SPM 4723 and PET 4482.

SPN - SPANISH LANGUAGE

SPN 1120C Spanish I
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

For students with no knowledge of Spanish or with less than two years of high school Spanish. Lays a foundation for speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 1121C Spanish II
Department: English & Foreign Language
4.0 sh (may not be repeated for credit)

Continuation of SPN 1120C. Continues development of skills in speaking, writing, and reading Spanish. In addition to the three hours of scheduled classroom time, students are required to do one hour of laboratory work per week.

SPN 2200 Intermediate Reading and Translation
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

For students who have previous experience in Spanish, but are not yet prepared for advanced work in the language.

SPN 2210 Intermediate Composition & Conversation
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Practical oral communication course for students on an intermediate level. Prepares students for SPN 2200.

SPN 3400 Advanced Stylistics
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Increasing and improving language skills. Classes conducted in Spanish. Meets Multicultural requirement.

SPN 3410 Composition and Conversation
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Skill in writing and speaking Spanish.

SPN 4500 Spanish Civilization
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Cultural and historical background of Spain. Meets Multicultural requirement.

SPN 4520 Latin American Culture and Civilization
Department: English & Foreign Language
3.0 sh (may not be repeated for credit)

Cultural and historical backgrounds of Latin American literature. Meets Multicultural requirement.

SPN 4955 Intensive Spanish Abroad
Department: English & Foreign Language
1.0-5.0 sh (may be repeated for up to 5.0 sh of credit)

Supervised and individualized foreign language experience abroad tailored to each student's individual proficiency needs in language and culture. Instruction will be in Spanish. Graded on a satisfactory/ unsatisfactory basis only. Permission is required. Meets Multicultural requirement.

SPW - SPANISH LITERATURE: WRITINGS

SPW 3190 Topics in Hispanic Literature
Department: English & Foreign Language
3.0 sh (may be repeated for up to 6.0 sh of credit)
Prerequisite: SPN 2200

An introduction to the literary analysis of selected Hispanic Texts, using readings and film, discussions and writing assignments. Normally offered in Spanish (it could also be taught in English), it will be aimed at intermediate to native Spanish speakers with an interest in Hispanic--Spanish and/or Latin American--literature. It will enhance language skills and foster an appreciation of Hispanic culture, adding the challenge of applying critical analysis to selected texts in Hispanic literature.

SSE - SOCIAL STUDIES EDUCATION

SSE 4113 Social Studies for Elementary Teachers
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Instructional methods and materials for teaching a contemporary program in social studies in the elementary school. Includes citizenship education and multicultural understandings; current trends and models teaching social studies.

SSE 4324 Teaching Social Studies in the Middle and Secondary Schools
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Instructional methods and materials for teaching a contemporary program in the social studies, including classroom management, citizenship education, global education and current trends and approaches to teaching social studies; includes observation/ participation in middle and secondary school settings.

SSE 6326 Teaching Social Studies in Middle and Secondary Level Education
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: SSE 4113
Co-requisite: EDM 6944 or ESE 6944

Analysis and evaluation of new programs and practices in teaching middle and secondary school social studies in terms of rationale, structure of disciplines and teaching strategy models; development, implementation and demonstration of creative teaching techniques designed to improve pupils' and teachers' understandings of and attitudes toward the study of social studies. Admission to Teacher Education and permission is required.

STA - STATISTICS

STA 2023 Elements of Statistics
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAT 1033

Fundamental statistical concepts. Probability, inference, estimation, hypothesis testing. (Gordon Rule Course: Applied Math) and (General Studies Course: MAT/MO)

STA 3162C Applied Statistics
Department: Mathematics
4.0 sh (may not be repeated for credit)
Prerequisite: MAC 2311

Inferential statistics from an applied point of view. Probability and sampling distributions, confidence intervals and hypothesis testing, ANOVA, correlation, simple and multiple linear regressions. SAS computer techniques. Lab required. (Gordon Rule Course: Applied Math)

STA 4173 Biostatistics
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023

A second course in statistics for students in the Biological Sciences. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Offered concurrently with STA 5176; graduate students will be assigned additional work. (Gordon Rule Course: Applied Math).

STA 4202 Analysis of Variance
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023

Introducing concepts of analysis of variance (ANOVA); single-factor (one-way) ANOVA and two-factor (two-way) ANOVA with balanced and unbalanced data; random and

mixed effects models. Offered concurrently with STA 5206; graduate students will be assigned additional work.

STA 4321 Introduction to Mathematical Statistics I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: MAC 2312

Probability, conditional probability, distributions of random variables, distribution of functions of random variables, limiting distributions, multivariate probability distributions. (Gordon Rule Course: Applied Math). Offered concurrently with MAP 5XX1 (Introduction to Mathematical Statistics I); graduate students will be assigned additional work.

STA 4322 Mathematical Statistics II
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321

Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 5326; graduate students will be assigned additional work. (Gordon Rule Course: Applied Math)

STA 4664 Introduction to Statistical Quality Control
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023

Covers control charts, capability indices, and related topics used in process control. (Gordon Rule Course: Applied Math).

STA 5166 Special Topics in Statistics
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 3162C

Introduction to one- and two-way ANOVA; nonparametric methods, correlation and linear regression analysis. Introduction to SAS.

STA 5176 Biostatistics
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023

A second course in statistics for students in the Biological Sciences. Topics covered include analysis of variance, regression analysis, nonparametric statistics, contingency tables. Offered concurrently with STA 4173; graduate students will be assigned additional work.

STA 5206 Analysis of Variance
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 3162C

Statistical methods useful in design and analysis of experiments in physical, biological, and social sciences. Analysis of variance including randomized blocks, Latin square, factorial arrangements, regression. Offered concurrently with STA 4202. Graduate students will be assigned additional work.

STA 5207 Applied Regression Analysis
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 2023 or STA 3162C

Regression analysis, simple and multiple; procedures for selection of a best set of regressors.

STA 5326 Mathematical Statistics II
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321

Point and interval estimates, measures of quality of estimates, Bayesian estimates, robust estimation, statistical hypothesis testing, including goodness of fit, contingency tables and ANOVA, SPR test, the Cramer-Rao inequality, multiple comparisons, completeness, distributions of quadratic forms, multivariate normal distributions. Offered concurrently with STA 4322; graduate students will be assigned additional work.

STA 6246 Design and Analysis of Experiments
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 5176, STA 5206 or equivalent

Further concepts in design and analysis of planned experiments with emphasis on confounding and fractional replications of factorial experiments; composite designs; incomplete block designs; estimation of variance components.

STA 6507 Nonparametric Statistics
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321 and STA 2023 or STA 3162C

Extensive coverage of goodness-of-fit tests, location problems, association analysis and general nonparametric topics.

STA 6607 Operations Research I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321 and MAS 3105 or MAS 5107

Mathematical probability models and distributions; linear programming models; the simplex method; duality and sensitivity analysis; inventory models; queueing theory; simulation.

STA 6608 Operations Research II
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 6607

Decision theory and games, PERT/CPM, Markovian decision process, integer programming, dynamic programming, reliability and maintenance.

STA 6666 Statistical Quality Control I
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321 and STA 2023 or STA 3162C

Procedures used in acceptance sampling and statistical process control are based on concepts and theory from probability and statistics. Introduces the applications of these procedures, investigates them from the standpoint of their statistical properties and develops the methodology for construction, evaluation and comparison of procedures.

STA 6707 Multivariate Methods
Department: Mathematics
3.0 sh (may not be repeated for credit)
Prerequisite: STA 4321, STA 5206, or STA 5207

Multivariate extensions of Chi-Square and t-tests; discrimination and classification procedures; applications to diagnostic problems in biological, medical, anthropological and social research; multivariate analysis of variance; factor analysis and principle components analysis.

STA 6930 Proseminar in Statistics
Department: Mathematics
1.0 sh (may not be repeated for credit)

Each M.A. candidate (except those who choose the thesis option), shall, under the direction of a project advisor, independently investigate a topic or topics in mathematics/statistics or mathematics education through the study of journal articles or other appropriate sources. The candidate shall submit a formal written report and make an oral presentation of the results of his/her investigations. The goal of the proseminar is to provide students an opportunity to integrate the total experience gained during their graduate training. Graded on satisfactory/unsatisfactory basis only. MA candidacy and permission is required.

STA 6971 Thesis
Department: Mathematics
1.0-6.0 sh (may be repeated for up to 8.0 sh of credit)

Graded on satisfactory/unsatisfactory basis only. Permission is required.

SYD - SOCIOLOGY OF DEMOGRAPHY/AREA STUDIES/SOCIOLOGICAL MINORITIES

SYD 3410 Urban Sociology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Comparative study of urban life; physical, institutional, social, cultural and economic factors of modern urban systems.

SYD 3810 Introduction to Women's Studies
Department: Anthropology
3.0 sh (may not be repeated for credit)

Examination of the economic, political, social and cultural positions of women in the past and now in American society. Also examines social roots of their self-concepts, values, beliefs and perceptions.

SYD 4800 Sociology of Sex Roles
Department: Anthropology
3.0 sh (may not be repeated for credit)

Changing sex roles in American society with particular attention to socialization and sex-differentiated roles in social institutions.

SYG - SOCIOLOGY: GENERAL

SYG 2000 Introduction to Sociology
Department: Anthropology
3.0 sh (may not be repeated for credit)

Fundamental principles concerning social relationships, social interaction and social structure. (General Studies Course: SS/SOC)

SYG 2010 Current Social Problems
Department: Anthropology
3.0 sh (may not be repeated for credit)

Major social issues affecting individuals in groups in modern industrial societies. Not open to students with Social Problems as lower division course. (General Studies Course: SS/SOC)

SYG 3233 Introduction to Africana Studies
Department: Anthropology
3.0 sh (may not be repeated for credit)

Provides a study of the history, culture, and experiences of Africans and people of African descent in America and elsewhere.

SYO - SOCIAL ORGANIZATIONS

SYO 3100 The Family
Department: Anthropology
3.0 sh (may not be repeated for credit)

Social and psychological aspects of interpersonal relationships within the family. Emphasis on modern problems of family.

SYO 4530 Inequality in America
Department: Anthropology
3.0 sh (may not be repeated for credit)

Social classes and class relations, changing forms and patterns of inequality in American society.

SYP - SOCIAL PROCESSES

SYP 3520 Sociology of Crime and Delinquency
Department: Anthropology
3.0 sh (may not be repeated for credit)

Theories of genesis of delinquency and crime; factors in organization of delinquent and criminal behavior from points of view of person and group; delinquent and criminal behavior system.

SYP 3630 Popular Culture
Department: Anthropology
3.0 sh (may not be repeated for credit)

Analysis of the social foundations and cultural ramifications of mass culture with primary reference to American society.

T TAX - TAXATION

TAX 4001 Tax Accounting
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: ACG 3101

Principles of federal income taxation as provided in Internal Revenue Code and regulations; added concentration on principles applicable to individuals. Landmark cases and significant current treasury releases discussed. Credit may not be received in both TAX 4001 and TAX 4002.

TAX 4012 Corporate Income Tax
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: TAX 4002

Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earning, distributions, reorganizations, liquidations, and Subchapters. In addition, the formation, operation, and termination of partnerships will be studied. Offered concurrently with TAX 5105; graduate students will be assigned additional work.

TAX 5105 Corporate Income Tax
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: TAX 4002

Federal income taxation of corporations and their shareholders, with special emphasis on incorporation, earnings, distributions, reorganizations, liquidations and Subchapters. Offered concurrently with TAX 4012; graduate students will be assigned additional work.

TAX 6065 Tax Data Bases, Research and Procedure
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: TAX 4002

Interpretative sources of tax laws and their interrelationships plus an analysis of federal tax procedures at the judicial and administrative level.

TAX 6405 Estate Gift and Trust Taxation
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: TAX 4002

Estate and gift taxation and Subchapter J with emphasis on family tax planning.

TAX 6875 Special Topics in Taxation
Department: Accounting & Finance
3.0 sh (may not be repeated for credit)
Prerequisite: TAX 5105

An advanced course in taxation of individuals and business entities. Intended for students interested in advanced tax issues. Emphasis is placed on topics usually not covered in other tax courses. Ideally suited for exploring the constantly changing federal tax law. Permission is required.

THE - THEATRE STUDIES AND GENERAL RESOURCES

THE 2000 The Theatre Experience
Department: Theatre
3.0 sh (may not be repeated for credit)

Role of theatre in contemporary American culture. Arts and craft of theatre, including drama, criticism, acting and production. (General Studies Course: HUM/FA)

THE 2300 Survey of Dramatic Literature
Department: Theatre
3.0 sh (may not be repeated for credit)

Survey of play scripts representing a succinct history of Western drama. (General Studies Course: HUM/FA), (Gordon Rule Course: Wrtg).

THE 2925 Play Production
Department: Theatre
1.0 sh (may not be repeated for credit)

Study and participation in the preparation and production of plays and/or musicals. Material and Supply Fee will be assessed.

THE 3090 Theatrical Production & Performance
Department: Theatre
1.0 sh (may be repeated for up to 9.0 sh of credit)

Individualized study in all areas of theatrical production and performance through apprenticeship on departmental productions during a semester. Completion of all lower division common prerequisites is required. Material and Supply Fee will be assessed.

THE 3112 History of Theatre I
Department: Theatre
3.0 sh (may not be repeated for credit)

Theatre history from origins through the eighteenth century.

THE 3113 History of Theatre II
Department: Theatre
3.0 sh (may not be repeated for credit)

Theatre history from eighteenth century through the present.

THE 3243 Musical Theatre History
Department: Theatre
3.0 sh (may not be repeated for credit)

History and development of musical theatre from origins to present.

THE 3306 Dramatic Literature II
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: THE 2300

A survey of play scripts representing important contributions from various genres of Western Theatre from the Greeks through contemporary Drama.

THE 3481 Dramaturgy
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 3650
Co-requisite: TPP 3650

An overview of various dramaturgical principles in a theatrical text. The topics are the relationship between text an co-text, the time-space relations, levels of narration, character construction, the adaptation from literature to stage, and the relationship of the text to society and art

THE 3948 Service Learning Field Study II
Department: Theatre
1.0-3.0 sh (may be repeated for up to 4.0 sh of credit)

Placement in community agency or other social organizational setting related to field of study. Supervision by faculty and agency. Students and faculty "customize" courses to fit a full range of services that are available in the setting. Student must be able to draw correlation between the discipline and field study. Journal and reflective experience paper are required. With the agreement of the student's faculty sponsor, a minimum of 4-6 hours per week must be done at the field site per semester hour of credit. Permission is required.

THE 4260 Costume History
Department: Theatre
3.0 sh (may not be repeated for credit)

Historical periods of costume and fashion from ancient times to the present, their relation to theatre history, and potential use as sources for theatrical costume design.

THE 4970 Senior Project
Department: Theatre
3.0 sh (may not be repeated for credit)

Preparation and completion of performance or design presentation as culminating project for the Bachelor of Fine Arts or Bachelor of Arts degree. Permission is required.

THE 4972 Senior Project Seminar
Department: Theatre
1.0 sh (may not be repeated for credit)

Planning, writing, and researching a proposal for the Senior Project. To be taken the semester prior to the Senior Project. Permission is required.

TPA - THEATRE PRODUCTION AND ADMINISTRATION

TPA 2000 Design for the Theatre
Department: Theatre
3.0 sh (may not be repeated for credit)

Play analysis for visual elements and expression. Stylistic sources as springboards to the design idea. Development of visual concepts for productions.

TPA 2200 Technical Theatre
Department: Theatre

3.0 sh (may not be repeated for credit)
Co-requisite: TPA 2290L

Methods of constructing and rigging scenery for the stage. Basic scene painting techniques. Stage lighting equipment and its use. Lab required.

TPA 2248 Introduction to Stage Makeup
Department: Theatre
3.0 sh (may not be repeated for credit)

Basic principles of the art of stage makeup. Practice in the design and execution of makeup for various purposes. Material and Supply Fee will be assessed.

TPA 2290L Technical Theatre Laboratory
Department: Theatre
1.0 sh (may not be repeated for credit)
Co-requisite: TPA 2200

A practical laboratory for application of technical theatre skills. Material and supply fee will be assessed.

TPA 3018 Design Portfolio
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2000, TPA 2200
Co-requisite: TPA 4045 or TPA 4060 or TPP 2260

Building a design portfolio for submission for employment in professional theatre or graduate school. Survey of employment opportunities in professional theatre and graduate school. Portfolio presentation and interview skills.

TPA 3020 Lighting Design I
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2000
Co-requisite: TPA 2000

Introduction to the work of the lighting designer through theoretical design projects and light lab projects. The theoretical designs cover the design process that the lighting designer uses to light a theatrical production. Each theoretical design introduces new concepts and challenges for the designer. The light lab projects build your ability to understand light and how to use light in a theatre situation. Projects also build in complexity and add to the overall design experience.

TPA 3060 Scene Design I
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2000
Co-requisite: TPA 2000

Scene design is a complex combination of artist, painter, sculptor, actor, and director. Designers need to be able to envision the script and translate it to a three dimensional space, interpret how the actor is going to move in the space and how the director will compose the stage picture. Course examines those aspects of design and through theoretical projects explores visualizing a script in theatrical space.

TPA 3223 Lighting Technology
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2200

Advanced study of the lighting equipment, dimmers, control, and other electronics used in the Theatre.

TPA 3230 Costume Construction
Department: Theatre
3.0 sh (may not be repeated for credit)

Techniques of patterning, cutting, fitting, draping, and basic construction of stage costumes. Material and supply fee will be assessed.

TPA 3259 Lighting Design
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2200, TPA 2290L, TPP 3650
Co-requisite: TPA 2000, TPP 3650

Theory and application of lighting design for the theatre. Use of CAD (Computer Aided Design) in lighting design projects.

TPA 3313 Scenic Technology
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2200

Advanced study of theatrical construction techniques, rigging, materials, hardware, and their use in the Theatre. In addition, the study of drafting for construction drawing, budgeting, time estimations and theatre safety.

TPA 3601 Stage Management
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: THE 2000

Stage Managers work with Things and People. Course clarifies the Things to work with as a Stage Manager and the techniques needed to work effectively with them. Discusses different methods to use with the myriad of people and personalities encountered in the Theatre. Improvisation and class discussion are employed to examine how to work more effectively with everyone on a production.

TPA 4021C Lighting Design II
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 3020

Advances the study of the design process involved in lighting design. Theoretical design projects and light lab projects are used to give the student challenges in the classroom that can be directly translated to the design process. Theoretical projects in a variety of design venues and types of theatre with lab projects that further build the designer's resources.

TPA 4045 Costume Design I
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 2000

Introduction to theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size. Permission is required.

TPA 4046 Costume Design II
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 4045

Advanced theatrical costume design for the stage using the design principles of line, shape, space, color, form, texture, and size.

TPA 4061 Scene Design II
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPA 3060

Advanced projects in scene design examine the challenges involved in designing in a variety of different venues and types of production. Expands the designer's tools to communicate their design idea to the director.

TPA 4077 Scene Painting
Department: Theatre
2.0 sh (may not be repeated for credit)

Practice in various techniques of scene painting. Consideration of pigments, color mixing, kinds of paints, paint equipment and its care. Material and supply fee will be assessed.

TPA 4504 Performing Arts Administration
Department: Theatre
3.0 sh (may not be repeated for credit)

Various aspects involved in the administration of a Performing Arts Organization. Special attention will be paid to the interrelationship in both goals and administration among various performing arts institutions including theatres, opera companies, and symphonies. Lectures and class discussion will provide an overview of the different areas of non-profit performing arts administration (including organizational structures, marketing, fundraising, grant writing, financial management, and producing) and applying these skills to the unique needs of a theatre company or other performing arts organization.

TPP - THEATRE PERFORMANCE AND PERFORMANCE TRAINING

TPP 1282 Voice and Movement for the Stage
Department: Theatre
3.0 sh (may not be repeated for credit)

Beginning course in the exploration of the sources of voice and movement and the process of developing individual expression and strength. Required of all theatre majors and directed primarily toward preparation for stage work.

TPP 2100 Acting for Non-majors
Department: Theatre
3.0 sh (may not be repeated for credit)

Introduction to the process of acting. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2110 Acting I
Department: Theatre
3.0 sh (may not be repeated for credit)

An introduction to the process of acting designed for students with some prior experience on stage. Work is directed toward bringing a character to life on the stage and communicating this life and relationships with others to an audience.

TPP 2190 Rehearsal and Performance
Department: Theatre
1.0 sh (may not be repeated for credit)

Production involvement in any area of theatre performance. Permission is required. Material and Supply Fee will be assessed.

TPP 2260 Acting for the Camera
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 2100

Adapting the craft of acting to the needs of the TV or film camera. Work in a studio on scenes, daytime serials, commercials. Permission is required. Material and supply fee will be assessed.

TPP 3121 Acting Improvisation
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 2100
Co-requisite: TPP 2100

Study of improvisational technique through games and exercises.

TPP 3140 Acting: Realism
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 1282, TPP 3155

Realistic acting techniques applied.

TPP 3155 Acting II
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 2110
Co-requisite: TPP 3650

Continues development of the fundamentals of acting through work on scenes from contemporary American theatre. Further develops student's understanding of the various acting philosophies and techniques of Hagen and Stanislavski.

TPP 3221 Audition Techniques
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 3155

Techniques for audition in theatre, musical theatre, television, and film including resume preparation and an overview of opportunities in professional acting and graduate school.

TPP 3250 Musical Theatre Performance
Department: Theatre
3.0 sh (may be repeated for up to 12.0 sh of credit)

Serving as the capstone to the Musical Theatre B.F.A. Combines the study of vocal technique with acting technique to create a performance ensemble to tour to various venues throughout the region.

TPP 3257 Musical Theatre Voice
Department: Theatre
1.0 sh (may be repeated for up to 8.0 sh of credit)
Co-requisite: THE 3243 or TPP 3250

Vocal technique and repertoire knowledge necessary for performance in Musical Theatre including breath control, diction, tone production, and interpretation of songs for musical theatre production.

TPP 3310 Play Directing
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 3155

Directing for stage. Lectures and discussions followed by practical application of procedures.

TPP 3640 Women Playwrights of Color
Department: Theatre
3.0 sh (may not be repeated for credit)

A study of the dramatic works of women playwrights of ethnicity. Script analysis and examination of social and political contexts of the plays.

TPP 3650 Script Analysis
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: THE 2000
Co-requisite: THE 2000

Exploration of a variety of styles and historical periods of play scripts through reading and analysis of the text as the basis of performance and production.

TPP 4113 Acting III
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 1282, TPP 3155

Developing the actor's timing, vocal, and physical skill to create characters in plays from Restoration, French farce, Theatre of the Absurd, etc. Credit may not be received in both TPP 4113 and TPP 4141.

TPP 4143 Acting: Styles II
Department: Theatre
3.0 sh (may not be repeated for credit)
Prerequisite: TPP 1282, TPP 3155

Emphasis on creating requiring skill with language.

TRA - TRANSPORTATION AND LOGISTICS

TRA 3153 Strategic Transportation Management
Department: Marketing & Economics
3.0 sh (may not be repeated for credit)

Presents the fundamental elements necessary to plan transportation systems. It examines the importance of transportation in the economy and the strategic and operational roles of transportation in supply chains. Emphasis is placed on domestic and global transportation operations, services pricing, carrier selection, equipment and shipment planning, transportation execution systems,

intermodal operations, security, and expanded services in distribution.

TSL - TEACHING ENGLISH AS A SECOND LANGUAGE

TSL 4080 ESOL Principles and Practices
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 5085; graduate students will be assigned additional work.

TSL 4081 Empowering Teachers to Teach English to ESOL Students
Department: Teacher Education
3.0 sh (may not be repeated for credit)
Prerequisite: TSL 4080

This is the second of two courses designed to provide students with information and skills concerning the education of students who have limited English proficiency. The course addresses cross-cultural understanding and methods of teaching English to speakers of other languages. It also focuses on the role of applied linguistics in second language teaching and the role and function of assessment of ESOL students.

TSL 4140 ESOL Curriculum and Materials Development
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Covers the study of curriculum and materials development for second language learners. It reviews the educational theories of language acquisition, learning and literacy. It provides class participants with knowledge of the various types of curricula, and the problems and solutions inherent in standardized curricula. Will also introduce ESOL program models currently used in Florida. Students will receive the necessary skills to select and use appropriate ESOL instructional activities, materials, and classroom use, and to develop their own ESOL instructional units, materials and technologies. Offered concurrently with TSL 5142; graduate students will be assigned additional work. Credit may not be received in TSL 5142 and either TSL 6145 or TSL 5145.

TSL 4251 Applied Linguistics
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Aims to provide the basic linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar needed to teach English to second language learners. Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. The participants will apply the knowledge gained to do contrastive analysis and will use error analysis on interference problems found with ESOL students. This will take place during a practicum in EFL or ESOL environment. Offered concurrently with TSL 5250; graduate students will be assigned additional work.

TSL 4441 Testing and Evaluation
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate language testing instruments, construct and administer testing instruments, and study how test scores are used in educational settings. The use of authentic assessment for ESOL students will also be a focus. Offered concurrently with TSL 5440; graduate students will be assigned additional work.

TSL 4520 Cross Cultural Communication and Understanding
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Develops awareness and understanding of the cultures represented by the different language minorities within Florida and the nation; provides an emphasis on research that will enable participants to plan and implement curriculum, instruction, and assessment activities to meet special needs of linguistically and culturally diverse students. Offered concurrently with TSL 5526; graduate students will be assigned additional work. Credit may not be received in both TSL 4520 and TSL 4526.

TSL 5085 ESOL Principles and Practices
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Designed to provide students with information and skills concerning the education of students who are ELL (English Language Learners). Addresses the 25 ESOL standards. Focuses on methods of teaching ESOL, curriculum and materials, cross cultural understanding, applied linguistics, and testing and evaluation of ESOL students. Offered concurrently with TSL 4080; graduate students will be assigned additional work.

TSL 5142 ESOL Curriculum and Materials Development
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Covers the study of curriculum and materials development for second language learners. It reviews the educational theories of language acquisition, learning and literacy. It provides class participants with knowledge of the various types of curricula, and the problems and solutions inherent in standardized curricula. Will also introduce ESOL program

models currently used in Florida. Students will receive the necessary skills to select and use appropriate ESOL instructional strategies, materials, and classroom use, and to develop their own ESOL instructional units, materials and technologies. Offered concurrently with TSL 4140; graduate students will be assigned additional work. Credit may not be received in TSL 5142 and either TSL 6145 or TSL 5145.

TSL 5250 Applied Linguistics
Department: Teacher Education
0.0-3.0 sh (may be repeated for up to 3.0 sh of credit)

Aims to provide the basic linguistic knowledge of phonetics, semantics, pragmatics, syntax, and grammar needed to teach English to second language learners. Students will study the evolution of language, its forms and stratification, and review the theories of first and second language acquisition. The participants will apply the knowledge gained to do contrastive analysis and will use error analysis on interference problems found with ESOL students. This will take place during a practicum in EFL or ESOL environment. Offered concurrently with TSL 4251; graduate students will be assigned additional work. Credit may not be received in both TSL 5250 and TSL 6250.

TSL 5440 Testing and Evaluation
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Provides a general review of the various theories of testing, and knowledge of the nature of testing, its parameters and its pitfalls. Class participants will evaluate language testing instruments, construct and administer testing instruments, and study how test scores are used in educational settings. The use of authentic assessment for ESOL students will also be a focus. Offered concurrently with TSL 4441; graduate students will be assigned additional work. Credit may not be received in both TSL 5440 and TSL 6440.

TSL 5525 Cross Cultural Communication and Understanding
Department: Teacher Education
3.0 sh (may not be repeated for credit)

Develops awareness and understanding of the cultures represented by the different language minorities within Florida and the nation; provides an emphasis on research that will enable participants to plan and implement curriculum, instruction, and assessment activities to meet the special needs of linguistically and culturally diverse students. Offered concurrently with TSL 4520; graduate students will be assigned additional work. Credit may not be received in both TSL 5525 and either TSL 4520 and TSL 4526.

Z ZOO - ZOOLOGY

ZOO 1010 General Zoology
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: ZOO 1010L

Introduction to the basic principles in animal biology presented as an integrated review of morphology, physiology, genetics, development, systematics, evolution and ecology. Provides foundation for further study in zoology. Material and supply fee will be assessed for corresponding lab. (General Studies Course: NS/LEC)

ZOO 3558 Coral Reefs
Department: Biology
3.0 sh (may not be repeated for credit)

Coral Reefs is a non-biology major course designed to provide a general overview of tropical and sub-tropical coral reefs to students with an interest in these fascinating ecosystems, but who lack a strong theoretical background in the biological sciences. Covers basic concepts dealing with the structure, formation, biology and ecology of Atlantic and Pacific coral reefs. Students will be presented with interactive exercises, projects, and module-assessments throughout the course that will reinforce major biological concepts and promote critical thinking.

ZOO 4254 Marine Invertebrate Zoology
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: ZOO 4254L

Survey of the invertebrates, with emphasis on systematics, morphology, physiology and ecology. Labs include detailed study of types and exposure to diversity, using live and preserved specimens, and exposure to techniques used in zoological research. Emphasis is on local marine species. Material and supply fee will be assessed for corresponding lab.

ZOO 4304 Marine Vertebrate Zoology
Department: Biology
4.0 sh (may not be repeated for credit)
Co-requisite: ZOO 4304L

Structure and function of chordates, especially those in water such as fish, whales and seals. Study of behavioral, ecological, physiological and structural adaptations to various modes of living, stressing local marine forms in lab. Material and supply fee will be assessed for corresponding lab.

ZOO 4454 Elasmobranch Biology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L, ZOO 1010, ZOO 1010L

Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 5452; graduate students will be assigned additional work.

ZOO 4457 Fish Physiology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L, PHY 2053, PHY 2053L

Classic and contemporary topics in fish physiology discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 5458; graduate students will be assigned additional work.

ZOO 4485 Marine Mammalogy
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: PCB 4043, PCB 4043L and ZOO 1010, ZOO 1010L

Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 5486; graduate students will be assigned additional work.

ZOO 4513 Animal Behavior
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: ZOO 1010

Contemporary view of animal behavior including discussion of sensory and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 5514; graduate students will be assigned additional work.

ZOO 4753 Histology
Department: Biology
4.0 sh (may not be repeated for credit)
Prerequisite: PCB 2131, PCB 2131L
Co-requisite: ZOO 4753L

The structural microarchitecture and cytoorganelles of various cell- and tissue-types will be examined at the light and electron microscopic levels. Various staining techniques for visualizing different cell structural compounds and cell organelles will be discussed. Function of key cell components will be presented and students will engage in identification of different cell and tissue types. Material and supply fee will be assessed for corresponding lab.

ZOO 4880C Fisheries Biology
Department: Biology
4.0 sh (may not be repeated for credit)

Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 5881C; graduate students will be assigned additional work.

ZOO 5452 Elasmobranch Biology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L, ZOO 1010, ZOO 1010L

Survey of current advances in the rapidly growing field of elasmobranch biology. Lectures promote an understanding of the interactive physiological, behavioral, and ecological components of adaptive life-history strategies seen in sharks, rays, skates and chimeras. Offered concurrently with ZOO 4454; graduate students will be assigned additional work.

ZOO 5458 Fish Physiology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: CHM 2045, CHM 2045L, PHY 2053, PHY 2053L

Classic and contemporary topics in fish physiology discussed within an ecological and evolutionary context. Emphasis is placed on understanding interactive physiological components of adaptive life-history strategies such as movement, feeding, reproduction, oxygen uptake, water balance, and excretion. Offered concurrently with ZOO 4457; graduate students will be assigned additional work.

ZOO 5486 Marine Mammology
Department: Biology
3.0 sh (may not be repeated for credit)
Prerequisite: PCB 4043, PCB 4043L, ZOO 1010, and ZOO 1010L

Application of current mammalogy principles to the study of marine mammal biology and phylogeny. Emphasizes ecology, physiology, and behavior of the sixteen marine mammal families. Offered concurrently with ZOO 4485; graduate students will be assigned additional work.

ZOO 5514 Animal Behavior
Department: Biology
3.0 sh (may not be repeated for credit)

Animal behavior including discussion of sensory biology and neurobiology, biological rhythms, genetic and experiential influences on behavior, communication, orientation, migration, predator-prey relationships and social behavior. Offered concurrently with ZOO 4513; graduate students will be assigned additional work.

ZOO 5881C Fisheries Biology
Department: Biology
4.0 sh (may not be repeated for credit)

Comparative study of cartilaginous and bony fishes, emphasizing structural and functional adaptations to their modes of living, origins, distribution, classification, adaptive radiation, embryology, and environmental requirements. Material and supply fee will be assessed. Offered concurrently with ZOO 4880C; graduate students will be assigned additional work.