

MATHEMATICS

Degree: Bachelor of Science
 Minor: Mathematics
 Department: Mathematics and Statistics
 Building 38, Room 135A
 (850) 474-2276
 mathstat@uwf.edu
 College: Arts and Sciences
 Semester Hours Required for Degree: 120

Faculty: D.L. Sherry (Interim Chairperson), R.W. Amin, S.C. Bagui, L.S. Bushway, F. Fedele, K.K. Fouché, R. Hemasinha, K. Li, Z. Manseur, M.L. Marx, M.M. Ncube, R.S. Novosad (Emeritus), A.U. Okafor, A.K. Shamma, S.E. Shamma, J.A. Uvah, J.R. Weaver

The undergraduate curriculum of the Department of Mathematics and Statistics prepares the student for graduate study; teaching; service in science, government and industry; and supporting roles in the social, biological, and physical sciences. Students may select a program of study with emphasis on one of the following: pure mathematics, applied mathematics, or statistics.

The bachelor's degree program offered by the Department of Mathematics and Statistics permits students considerable flexibility in choosing electives outside the major. It is recommended that students seek the advice of faculty regarding career opportunities and choice of a suitable minor.

Teaching in Secondary Schools

Students interested in obtaining certification to teach this subject area in secondary education need to contact an advisor in this department to carefully plan the course work to satisfy degree and some teacher certification requirements. A degree in this major is required for participation in teacher certification options.

PROGRAM REQUIREMENTS

In addition to general University requirements, students seeking the B.S. in Mathematics must meet the requirements listed below.

Students should consult with their academic advisor for courses which may satisfy both the general education requirements and prerequisites.

Course descriptions are listed alphabetically by prefix in the back of this catalog.

General Studies (36 sh)

For additional information see the General Studies section of this catalog.

Common Prerequisites (23 sh)

State mandated common prerequisites must be completed prior to graduation, but are not required for admission to the program.

COP	xxxx	Computer Language elective	3
+ MAC	2311	Analytic Geometry & Calculus I	4
		[MAC x311]	
+ MAC	2312	Analytic Geometry & Calculus II	4
		[MAC x312]	
+ MAC	2313	Analytic Geometry & Calculus III	4
		[MAC x313]	
+ Two		lab-based science courses	8

+ Indicates common prerequisites which can be used to satisfy General Studies requirements.

Lower Division Electives (1-14 sh)

Sufficient 1000/2000 level electives to complete at least 60 semester hours in the lower division. Current UWF students may use elective courses at any level (1000-4999) to meet this elective requirement.

Major (31 sh)

MAA	4211	Advanced Calculus I	3
MAA	4212	Advanced Topics in Multi-Variable Calculus	3
MAS	3105	Linear Algebra	3
MHF	3202	Set Theory & Mathematical Logic	3
MAT	4500	Undergraduate Proseminar in Mathematics/Statistics	1

Choose one:

MAS	4301	Abstract Algebra	3
STA	4321	Introduction to Mathematical Statistics I	3

Electives

3000/4000 level approved Math/Statistics major courses 15

Major-Related (0 sh)

Upper Division Electives (29 sh)

Sufficient 3000/4000 level electives to meet UWF's requirement of 48 semester hours in the upper division or completion of all departmental requirements at the 3000/4000 level, whichever is greater.

MINOR

A Minor in Mathematics requires completion of 15 sh approved by the mathematics department in courses beyond the level of MAC 2313. A list of approved courses may be obtained from the department. Mathematics majors may not earn this minor.