NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry & Natural Sciences

Bachelor of Science
MATHEMATICS (EXTENDED)
Applied Mathematics Emphasis
2009-2010 Undergraduate Catalog

Degree Progression Plan

Freshman Year							
1st term				**2nd term**			
MAT 136	Calculus I	4		MAT 137	Calculus II	4	
MAT 123	First Year Seminar	1		MAT 226	Discrete Mathematics	3	
DIV	Diversity	3		CS 122	Programming for Engineering & Science (SCI: SAS) **	3	
LS	Liberal Studies	3		ENG 105	Critical Reading and Writing (FNRQ)	4	
GE	General Elective	3		*GE*	General Elective	1	
NAU 100	Transition to College	1					
	Total units	15			Total units	15	
Sophomore Year							
3rd term				**4th term**			
MAT 238	Calculus III	4		MAT 239	Differential Equations	3	
MAT 316	Intro Linear Algebra	3		MAT 320W	Foundations of Math	3	
DIV	Diversity	3		*LS*	Liberal Studies	4	
LS	Liberal Studies	3		*LS*	Liberal Studies	3	
GE	General Elective	3		*GE*	General Elective	1	
	Total units	16			Total units	14	
Junior Year							
5th term				**6th term**			
MAT 411C or MAT 431C	Intro to Abstract Algebra OR Intro to Analysis I	3		MAT 412C or MAT 441C or STA 474C	Intro to Abstract Algebra or Intro to Topology or Intro to Math Statistics II	3	
STA 473C	Introduction to Math Statistics I	3		ME	Major Elective *	3	
MAT 362	Intro to Numerical Analysis	3		*LS*	Liberal Studies	3	
LS	Liberal Studies	3		*LS*	Liberal Studies	3	
GE	General Elective	3		*GE*	General Elective	3	
	Total units	15			Total units	15	
Senior Year							
7th term				**8th term**			
MAT 411C or MAT 431C	Intro to Abstract Algebra OR Intro to Analysis I	3		MAT 480 or MAT 485	Math of Finance Modeling or Undergraduate Research	3	
ME	Major Elective *	3		ME	Major Elective *	3	
ME	Major Elective *	3		GE	General Elective	3	
LS	Liberal Studies	3		*GE*	General Elective	3	
GE	General Elective	3		*GE*	General Elective	3	
	Total units	15			Total units	15	

Liberal Studies Distribution blocks

AHI (6 units)	SPW (6 units)	CU (6 units)	Science (7 units)	Additional 3 units to reach 32 total
			CS 122 (3)	

Revised 1/21/2009

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

The math foundation requirement for this major is waived.

You must have a grade of C or better in each mathematics or statistics course that is used to fulfill the requirements for this major.

* Major electives include 12 units from:
- 9 units from MAT 335, 368, 461 or 467
- 3 additional units from MAT or STA courses 300 or above (except MAT 301, MAT 302, MAT 401 or MAT 402)

** If you complete a minor in Computer Science, CS 122 is not required, and another liberal studies course is needed.

GENERAL INFORMATION

- This degree progression plan is to be used in conjunction with the academic catalog and degree progress report.
- Students should see an academic advisor regularly to confirm their academic progress.
- Students must see an academic advisor before enrollment for the 7th term in preparation for graduation.
- Many courses have pre-requisites. Please check the academic catalog for pre-requisite and placement information.
- Submit graduation application during 7th term.
- Honors students complete different requirements to meet NAU's liberal studies program. Students should consult an Honors Program advisor for complete information on fulfilling Honors Liberal Studies requirements.
- All students are required to complete at least 120 total units which includes:
  - 35 units of liberal studies courses: http://www4.nau.edu/aio/Articulation/LScourselist.htm
  - 6 units of diversity courses (3 units in Global & 3 units in Ethnic). The diversity requirement may be fulfilled in any part of the program of study: http://www4.nau.edu/aio/Articulation/DiversityCourseList.htm
  - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU
- English placement: http://www.nau.edu/comp/placement.html
- Math placement: http://www.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml

CONTACT INFORMATION

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