NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry & Natural Sciences

Bachelor of Science in Education
MATHEMATICS SECONDARY EDUCATION
NAUTeach
2010-2011 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	
TSM 101	Step 1: Inquiry Approaches to Learning	1		ENG 105	Critical Reading / Writing (FNRQ)	4	
LS/ DIV	Liberal Studies/Diversity ****	3		CS 122	Programming for Engineering & Science (SCI: SAS) ***	3	
LS	Liberal Studies *	3		TSM 102	Step 2: Inquiry-Based Lesson Design	1	
GE	General Elective	3					
NAU 100	Transition to College	1					
	Total units	16			Total units	15	
Sophomore Year							
3rd term				**4th term**			
STA 275	Statistical Analysis	3		MAT 320W	Foundations of Mathematics	3	
ME	Major Elective **	3		MAT 185	Functions, Applications & Explorations	3	
TSM 300	Knowing and Learning	3		TSM 350	Classroom Interactions	3	
LS	Liberal Studies (Lab Science)	4		LS	Liberal Studies	3	
LS	Liberal Studies	3		GE	General Elective	3	
Apply to NAUTeach Program							
	Total units	16			Total units	15	
Junior Year							
5th term				**6th term**			
MAT 401	Methods for Teaching Secondary School Mathematics I	3		MAT 402	Methods for Teaching Secondary School Mathematics II	3	
MAT 365	Modern Geometry	3		MAT 318	Elementary Number Theory	3	
ME	Major Elective **	3		MAT 442C	History & Philosophy of Mathematics	3	
BME 300	Intro to Structured English Immersion	3		TSM 404	Research Methods	3	
LS/DIV	Liberal Studies/Diversity****	3		LS	Liberal Studies	3	
				Attempt AEPA Mathematics Subject Knowledge Test			
	Total units	15			Total units	15	
Senior Year							
7th term				**8th term**			
MAT411C or MAT 431C	Intro to Abstract Algebra or Intro to Analysis	3		TSM 495C	Apprentice Teaching	12	
TSM 450	Project-Based Instruction	3		TSM 496C	Seminar	1	
BME 437	SEI Methods in Secondary School	3					
LS	Liberal Studies	3					
GE	General Elective	3					
Apply to Apprentice Teaching							
	Total units	15			Total units	13	

Total Credits: 120

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 1/28/2010

PROGRAM INFORMATION

A minimum of 120 units are required for this degree. A grade of C or better is required for all MAT/STA courses.

Be aware that some courses (especially 300 & 400 level courses) are only offered once a year (fall only or spring only). These courses may be pre-requisites for future courses. Check with your department for a current course rotation.

The Liberal Studies Mathematics foundation requirement for this major is waived.

* PSY 101 Introduction to Psychology (SPW) is recommended

** Major electives include 6 units of MAT or STA courses numbered 238 or higher.

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

**** Take a Liberal Studies course that also satisfies a Diversity requirement.

NAUTeach Program Admission:
In order to take NAUTeach courses beyond TSM 300, you must be admitted to the NAUTeach Program. Program acceptance is required before enrolling in TSM 350. Admission requirements are as follows:

- Completion of TSM 101 and 102 with a grade of C or better.
- Enrollment in TSM 300 Knowing and Learning.
- Copy of fingerprint clearance card OR verification of application for fingerprint card.
- Completion of 30 units of coursework which includes:
    - a grade of at least B for the English foundation requirement (ENG 105 or ENG 101 & 102). If you don't receive a 3.0, you may complete an additional English writing course, at the 200 level or above, with at least a B, to meet this requirement.
    - a grade of at least C for the Mathematics foundation requirement (MAT 125, 136, or equivalent).
    - completion of at least three units of content major work.
- A minimum grade point average of 2.5 in all content major course work.
- A declared science or mathematics B.S.Ed. major.
- Completion of the NAUTeach program application form.

You must have a grade point average of at least 2.5 in all of your NAU coursework in order to graduate.
See catalog for additional information regarding application for Apprentice Teaching.

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/LScourselist.htm
    - 6 units of diversity courses: (3 units in Global & 3 units in Ethnic): http://www4.nau.edu/aio/DiversityCourseList.htm
    - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU

- English placement: http://testing.nau.edu/exams/placement.html
- Math placement: http://www.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml

CONTACT INFORMATION

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