



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Secondary Education - Mathematics Bachelor of Science in Education

2014-2015 2013-2014 Undergraduate Catalog

Four Year Progression Plan

Sample Progression Plans are for planning purposes only; see the catalog for official details.

Year 1 - Fall		
MAT 136	Calculus I	4
MAT 123	First Year Seminar	1
TSM 101	Step 1	1
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
NAU 100	Transition To College	1

Year 1 - Spring		
MAT 137	Calculus II	4
MAT 226	Discrete Mathematics	3
ENG 105	Critical Read/Writing In Univ	4
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
TSM 102	Step 2	1

Year 2 - Fall		
STA 275	Statistical Analysis	3
MAJOR ELECTIVE	Major Elective	3
TSM 300	Knowing And Learning	3
LIBST LAB	Liberal Studies (LAB) Course	4
LIBST COURSE	Liberal Studies Course	3
Apply to NAUTeach Program		

Year 2 - Spring		
MAT 320W	Foundations Of Mathematics	3
MAT 185	Functions, Applications & Expl	3
TSM 350	Classroom Interactions	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
MAT 401	Mthds Tchg Sec Sch Math I	3
MAT 365	Modern Geometry	3
MAJOR ELECTIVE	Major Elective	3
BME 200	Intro Struct English Immersion	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3

Year 3 - Spring		
MAT 402	Mthds Tchg Sec Sch Math II	3
MAT 318	Elementary Number Theory	3
MAT 442	History & Philosophy Of Math	3
TSM 404	Research Methods	3
LIBST COURSE	Liberal Studies Course	3
Attempt AEPA Mathematics Subject Knowledge Test Apply to Apprentic Teaching		

Year 4 - Fall		
Choose one of the options below:		
Option: A		
MAT 411	Intro To Abstract Algebra	3
Option: B		
MAT 431	Introduction To Analysis	3
TSM 450	Project-based Instruction	3
BME 437	Sci Methods Secondary School	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
Choose one of the options below:		
Option: A		
TSM 495C	Apprentice Teaching	12
Option: B		
ECI 495C	Supervised Teaching: Secondary	12
TSM 496C	Apprentice Teaching Seminar	1

University Requirements Specified by Major	
Foundation Requirements: English (FNRQ:ENG)	ENG 105 (4)
Science/Applied Science (SAS/LAB)	CS 122 (2)

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. 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.~~ ³⁰⁰
MAT 220, 238, 239 and/or MAT/STA courses 300 or higher

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

**** In order to be approved for student teaching, you must complete these five courses, earning a grade of B or better in four of the five courses and earning a C or better in the remaining course (TSM 350, 404, 450, BME 200 & 437)

NAUTeach Program Admission:

In order to take NAUTeach courses, you must apply for and be admitted to the Teacher Education 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.
- Completion of or enrollment in TSM 300 Knowing and Learning.
- Copy of fingerprint clearance card OR verification of application for fingerprint card.
- Completion of 30 units of course work which includes:
 - a grade of at least B for the English foundation requirement (ENG 105 or ENG 101 & 102). If you do not 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).
- A minimum grade point average of 2.5 in all content major course work (must have taken at least 6 units).
- A declared science or mathematics BSED major.
- Completion of a teacher education orientation for secondary education.

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

CONTACT INFORMATION

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① { STA 270
or
STA 275

Applied Statistics (3)
Statistical Analysis (3)