NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry & Natural Sciences

Bachelor of Science in Education
CHEMISTRY SECONDARY EDUCATION
NAUTeach
2009-2010 Undergraduate Catalog

Degree Progression Plan

Freshman Year

1st term				2nd term			
CHM 151	General Chemistry I	4		CHM 152	General Chemistry I	3	
CHM 151L	General Chemistry Lab	1		CHM 152L	General Chemistry II Lab	1	
ENG 105	Critical Reading and Writing (FNRQ)	4		MAT 136	Calculus I (SCI: SCI: SAS)	4	
TSM 101	Step 1: Inquiry Approaches to Teaching	1		BIO 181	Unity of Life (SCI: SCI: SAS)	3	
NAU 100	Transition to College	1		BIO 181L	Unity of Life Lab	1	
GE	General Electives *	3		TSM 102	Step 2: Inquiry-Based Lesson Design	1	
				LS	Liberal Studies**	3	
	Total units	14			Total units	16	

Sophomore Year

3rd term				4th term			
CHM 235	Organic Chemistry I	4		CHM 238	Organic Chemistry II	3	
CHM 235L	Organic Chemistry I Lab	1		CHM 238L	Organic Chemistry II Lab	2	
MAT 137	Calculus II (FNRQ)	4		PHY 262	University Physics II (SCI: SCI: SAS)	3	
PHY 161	University Physics I (SCI: SCI: SAS)	3		TSM 350	Classroom Interactions	3	
PHY 161L	University Physics Lab	1		BME 300	Intro to Structured English Immersion	3	
TSM 300	Knowing & Learning	3		LS/DIV	Liberal Studies / Diversity ***	3	
Apply to NAUTeach Program							
	Total units	16			Total units	17	

Junior Year

5th term				6th term			
CHM 341	Physical Chemistry I	3		CHM 320	Analytical Chemistry	3	
ME	Major Elective +	3		CHM 320L	Analytical Chem. Lab	1	
JLWC	Junior Level Writing Course ****	3		ME	Major Elective +	3	
PHI 359	Philosophy of Science (AHI)	3		TSM 404	Research Methods	3	
LS	Liberal Studies	3		LS/DIV	Liberal Studies / Diversity ***	3	
				GE	General Electives	3	
				Attempt AEPA Chemistry Subject Knowledge Test			
	Total units	15			Total units	16	

Senior Year

7th term				8th term			
GLG 101	Physical Geology (SCI: SCI: LAB)	3		TSM 495C	Apprentice Teaching	12	
GLG 103	Physical Geology Lab (SCI: SCI: LAB)	1		TSM 496C	Seminar	1	
BME 437	SEI Methods in Secondary School	3					
TSM 450	Project-Based instruction	3					
LS	Liberal Studies	3					
Apply to Apprentice Teaching							
	Total units	13			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 35 total
PHI 359	**		GLG 101 & GLG 103 (4)	
			BIO 181 (3)	PHY 161 (3)

Revised 10/10/2008

PROGRAM INFORMATION
A minimum of 120 units are required for this degree.

Recitations are available and strongly encouraged for CHM 151, CHM 152, CHM 235, CHM 238, PHY 161, and PHY 262, however they are not required.

*If you are not prepared to take MAT 136 in term 2, MAT 125- Pre-Calculus needs to be completed in term 1.

**PSY 101 (SPW) recommended

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

**** Junior Level Writing Requirement is fulfilled by the completion of CHM 300W, ENG 302W, or ENG 305W

+ Major electives include two of the following three courses: CHM 350, 360 or 440

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/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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