

Bachelor of Science in Education BIOLOGY SECONDARY EDUCATION I-STEP

2007-2008 Undergraduate Catalog

Degree Progression Plan

Freshman Year							
1 st term				2 nd term			
BIO 181/181L or BIO 182	Unity of Life I or Unity of Life II	4	BIO 181/181L or BIO 182	Unity of Life I or Unity of Life II	4		
CHM 151	General Chemistry I (SCI: LAB)	4	CHM 152	General Chemistry II (SCI: SAS)	3		
CHM151L	General Chemistry I Lab (SCI: LAB)	1	CHM 152L	General Chemistry Lab	1		
MAT 125	Pre-Calculus	4	ENG 105	Critical Reading and Writing	4		
EDF 200	Intro to Education	3	LS	Liberal Studies	3		
FYE 101	First Year Experience	1	LS	Liberal Studies	3		
	Total units	17		Total units	18		
Sophomore Year							
3 rd term				4 th term			
BIO 340	Genetics and Evolution	3	BIO 344	Cellular and Molecular Biology	3		
ME	Major Elective **	4	ME	Major Elective **	3		
ME	Major Elective **	3	CHM 230	Fundamentals of Organic Chemistry (SCI: SAS)	3		
PHY 111	General Physics I (SCI: SAS)	3	CHM 230L	Fundamentals of Organic Chemistry Lab	1		
PHY 111L	General Physics I Lab	1	GLG 101	Physical Geology (SCI: SAS)	3		
LS/DIV	Liberal Studies/Diversity *	3	GLG 103	Physical Geology Lab	1		
		17	STA 270	Applied Statistics (SCI: SAS)	3		
	Total units	• =7	Total units	17			
Junior Year							
	5 th term			6 th term	1 1		
POS 220	Federal and Arizona Constitution ***	3	SCI 460C	Secondary Science Methods	3		
EPS 325	Ed-Psychology in Middle-School & H.S	3	BIO 435C	Evolutionary Biology	3		
BIO 326	Ecology	3	ME	Major Elective **	3		
BIO 326LW	Ecology Lab	1	LS/DIV	Liberal Studies/Diversity *	3		
ME	Major Elective **	4	LS	Liberal Studies	3		
LS	Liberal Studies	3					
Apply to Teacher education program							
	Total units	17		Total units	15		
Senior Year							
7 th term				8 th term			
SCI 461	Secondary Science Techniques	3	ECI 495C	Supervised Teaching	12		
ECI 322	Secondary School Curriculum	3	BIO 430C	Science Teaching Methods	2		
BME 437	SEI Methods in Secondary School	3					
ECI 450	High School Teaching Methods	3					
ECI 465	Evaluation of Learning: Secondary Education	3					
SCI 308	Secondary Teaching Practicum	1					
Total units				Total units	14		

- 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.

PROGRAM INFORMATION

A minimum of 120 units are required for this degree. Notice the 8 term plan has 131 units.

Recitations are available and strongly encouraged for BIO 181, BIO 182, CHM 151, CHM 152, CHM 230 & PHY 111; however they are not required.

It is required to complete at least 40 units of biology and major electives with a grade of C or better.

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

** Major Electives include 17 units from the following:

- 4 to 8 units in one of the following combinations of courses: BIO 425C and 425L or BIO 201 and 202 (strongly recommended for AEPA exam)
- at least 3 units from BIO 284, 374, 410, 414, 415, 426C, 426L, 431, 517, 536, and 570
- 6 to 10 of additional coursework from:
 - o any BIO course, except 100/100L, BIO 310 or any BIO recitation course
 - o up to 3 units of BIO 300
 - o up to 6 units from BIO 408, 485, 497, and 498
 - o up to 6 units from FOR 403, 404, and 405 and CHM 360 or 461.

*** POS 220 or (POS 110 & 241) are not required courses, but will satisfy the Arizona certification requirement for federal and Arizona constitution. You may meet this requirement by demonstrating proficiency on a special exam.

You must have a grade point average of at least 2.5 in all of your NAU coursework in order to graduate.

To be accepted into the teacher education program for following criteria must be satisfied:

- Completed 45 units of coursework which includes:
 - o ENG 101 & 102 or ENG 105 with a minimum cumulative English GPA of 3.0
 - o If after completing the English above, you fall below a 3.0, you have two options
 - Repeat ENG 101, 102 or 105 to raise your GPA to 3.0. However if you earned a C in ENG 105, you must utilize the second option
 - Complete one or more of the following courses to replace the grade in ENG 101, 102 or 105 and raise the cumulative GPA to 3.0 – ENG 210, ENG 211, ENG 220, ENG 270, ENG 302 or ENG 310
 - o MAT 125, MAT136 or acceptable equivalent with a minimum grade of C.
 - o Completion of at least three units of content major work.
 - o A minimum grade point average of 2.5 in all content major course work.
 - Declared a major.
- Completed EDF 200 or equivalent with a minimum grade of C
- Copy of fingerprint clearance card OR verification of application for fingerprint card
- Verification of application to NAU
- Completion of one of the following: cumulative 2.5 GPA in liberal studies courses or cumulative 2.5 GPA in all courses
- Recommendation form
- Evidence of completion of a teacher education orientation

GENERAL INFORMATION

- 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.math.nau.edu/placement.html

CONTACT INFORMATION

Biology Advisement Center Building 21, Room 144 Phone: 928-523-9304

Department Chair: Maribeth Watwood

Phone: 928-523-9322

EMAIL: Maribeth.Watwood@nau.edu

Debbie Wildermuth Academic Services Coordinator College of Engineering and Natural Sciences

Building 21, Room 102 Phone: 928-523-3842

EMAIL: Debbie.Wildermuth@nau.edu