



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences
Secondary Education - Biology 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		
BIO 181	Unity Of Life I: Cell Life	3
BIO 181L	Unity Of Life I Lab	1
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Choose one of the options below:		
Option: A		
MAT 125	Precalculus Mathematics	4
Option: B		
MAT 136	Calculus I	4
TSM 101	Step 1	1
NAU 100	Transition To College	1

Year 1 - Spring		
BIO 182	Unity/Life II: Multicellular	3
BIO 182L	Bio 182 Lab	1
CHM 152	General Chemistry II	3
CHM 152L	General Chemistry II Lab	1
ENG 105	Critical Read/Writing In Univ	4
TSM 102	Step 2	1
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
BIO 240	Genetics And Evolution	3
PHY 111	General Physics I	4
STA 270	Applied Statistics	3
TSM 300	Knowing And Learning	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
Apply to NAU Teach Program		

Year 2 - Spring		
BIO 344	Cellular And Molecular Biology	3
MAJOR ELECTIVE	Major Elective	4
CHM 230	Fundamental Organic Chemistry	3
CHM 230L	Fundmtl Organic Chemistry Lab	1
TSM 350	Classroom Interactions	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3

Year 3 - Fall		
BIO 326	Ecology	3
BIO 326LW	Ecology Lab	1
Choose one of the options below:		
Option: A		
BIO 425C	Animal Physiology	3
BIO 425L	Animal Physiology Lab	1
Option: B		
BIO 201	Human Anatomy/Physiology I	3
BIO 201L	Bio 201 Lab	1
PHI 359	Philosophy Of Science	3
BME 200	Intro Struct English Immersion	3

Year 3 - Spring		
BIO 435C	Evolutionary Biology	3
MAJOR ELECTIVE	Major Elective	3
GLG 101	Physical Geology	3
GLG 103	Physical Geology Lab	1
BME 437	Sci Methods Secondary School	3
TSM 404	Research Methods	3
Attempt AEPA Biology Subject Knowledge Test		
Apply to Apprentice Teaching		

Year 4 - Fall		
MAJOR ELECTIVE	Major Elective	4
MAJOR ELECTIVE	Major Elective	4
TSM 450	Project-based Instruction	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies 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)
Foundation Requirements: Math (FNRQ:MAT)	MAT 125 (4), MAT 136 (4)
Aesthetic and Humanistic Inquiry (AHI)	PHI 359 (3)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	PHY 111 (4)

PROGRAM INFORMATION

A minimum of 120 units are required for this degree. Notice this 8 term plan has 121- 124 units. A grade of C or better is required for the 40 units of biology and major electives. Recitations are available and strongly encouraged for BIO 181, BIO 182, CHM 151, CHM 152, CHM 230 & PHY 111; however they are not required.

* ~~PSY 101 (SPW)~~ recommended

** Major Electives include 15 units from the following:

- Botany Course Options: at least 3 units from BIO 284, 374, 410, 414, 415, 426C, 426L, 431, 517, 536, and 570
- 12 units of additional course work to complete 40 units in the major. The following rules apply to course selection:
- Inclusions: Any BIO course not excluded or limited below.
 - Exclusions: BIO 100, 100L, 310, and BIO recitation (-R) courses
 - Limitations:
 - up to 3 units of BIO 300
 - up to 6 units from BIO 408, 485, 497, and 498
 - up to 6 units from FOR 203, 204, and 205 and CHM 360 or 461

*** If you take BIO 201/L, taking BIO 202/L for a major elective is strongly recommended.

**** If MAT 136 or MAT 136H is complete, STA 270 is not required. The requirement is MAT 125 & STA 270 OR MAT 136 OR MAT 136H.

+ 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 that 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 C or better 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. *Student teach*

See catalog for additional information regarding application for Apprentice Teaching.

CONTACT INFORMATION

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NAU Teach Program
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① { BIO 326 Ecology
BIO 326L Ecology Lab
BIO 305W Writing In Biology

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