

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
MAT 125	Precalculus Mathematics	4
HON 100	Introduction To Honors	1
HON 190	Sem Critical Reading & Writing I	3

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
HON 29X	Honors Topic Seminar 29X	3
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
MAJOR ELECTIVE	Major Elective	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
PSY 230	Intro Statistics In Psychology	4
CHM 235	General Organic Chemistry I	4
CHM 235L	Gen Organic Chemistry I Lab	1
LANGUAGE 101	Language 101-level Course	4

Year 2 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LANGUAGE 102	Language 102-level Course	4
HON 39X	Honors Advanced Seminar 39X	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
Choose one of the options below:		
Option: A		
BIO 205	Microbiology	3
BIO 205L	Microbiology Lab	1
BIO 305W	Microbiology Writing Lab	1
Option: B		
BIO 326	Ecology	3
BIO 326LW	Ecology Lab	1
CHM 360	Fundamental Biochemistry	3
PHY 111	General Physics I	4
LIBST COURSE	Liberal Studies Course	3

Year 3 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
PHY 112	General Physics II	4
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	1

Year 4 - Fall		
CAPSTONE HON COURSE	Honors Capstone Course	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	3
Submit graduation application this term.		

Year 4 - Spring		
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	4

University Requirements Specified by Major	
Foundation Requirements: Math (FNRQ:MAT)	MAT 125 (4)
Science/Applied Science (SAS/LAB)	CHM 151 (4), CHM 151L (1), CHM 152 (3)
Liberal Studies Elective	PHY 111 (4)

University Honors Program

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① BIO 305W Writing In Biology (1)

② { BIO 326 Ecology (3)
BIO 326L Ecology Lab (1)
BIO 305W Writing In Biology (1)

③ Option C
BIO 365W Scientific Manuscript Prep (3)



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Biology Bachelor of Science

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
MAT 125	Precalculus Mathematics	4
NAU 100	Transition To College	1
GE COURSE	General Elective Course	2

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
LIBST COURSE	Liberal Studies Course	3

Year 2 - Fall		
MAJOR ELECTIVE	Major Elective	3
Choose one of the options below:		
Option: A		
STA 270	Applied Statistics	3
Option: B		
PSY 230	Intro Statistics In Psychology	4
CHM 235	General Organic Chemistry I	4
CHM 235L	Gen Organic Chemistry I Lab	1
DIV ELECTIVE	Diversity Elective	3

Year 2 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
Choose one of the options below:		
Option: A		
BIO 205	Microbiology	3
BIO 205L	Microbiology Lab	1
BIO 305W	Microbiology Writing Lab	1
Option: B		
BIO 326	Ecology	3
BIO 326LW	Ecology Lab	1
CHM 360	Fundamental Biochemistry	3
PHY 111	General Physics I	4
LIBST COURSE	Liberal Studies Course	3

Year 3 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
PHY 112	General Physics II	4
DIV ELECTIVE	Diversity Elective	3
GE COURSE	General Elective Course	1

Year 4 - Fall		
CAPSTONE COURSE	Capstone Course	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
Submit graduation application this term		

Year 4 - Spring		
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	3
GE COURSE	General Elective Course	4

University Requirements Specified by Major	
Foundation Requirements:English (FNRO:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRO:MAT)	MAT 125 (4)
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.

Recitations are available and strongly encouraged for BIO 181, BIO 182, CHM 151, CHM 152, CHM 235, PHY 111, PHY 112, PHY 161 & PHY 262; however, they are not required.

It is required to complete at least 40 units of biology and biology-related courses with a grade of C or better.

*Major requirements include at least 23 units of electives chosen from:

- any BIO course, except BIO 100/100L and BIO 310 and any BIO recitation course
- up to 3 units of BIO 300
- up to 6 units from BIO 408, 485, 497, and 498
- up to 6 units from:
 - ANT 270, 271, 370, 379, 553, and 554
 - CHM 238L, 320, 320L, 360L, 440, 461, 462C and 560
 - CS 486C
 - ENV 440 and 440L
 - FOR 212, 213, 222, 240, 250, 255, 270, 340, 381, 382, 445, 452, 453, 454 and 504
 - GSP 150
 - GLG 101, 107, 201, 225, 304, and 530
 - NTS 256
 - PHI 332
 - PRM 300
 - PSY 320, 350, 355, 370, 420, 432 and 670
 - STA 471

**Major requirements include 24-36 units of science courses chosen from among the following. The recommended courses are listed on the progression plan and in bold below. Discuss options with an advisor. If you are not prepared to take Pre-calculus (MAT 125), MAT 108 must be taken in preparation. However, MAT 108 is not a requirement for this degree and will satisfy general electives.

- **CHM 151, 151L, 152, 152L**
- CHM 230 and 230L OR **CHM 235, 235L**
- **CHM 360** OR CHM 461
- **MAT 125 plus STA 270** or PSY 230 OR MAT 136 only
- **PHY 111, and 112**, OR PHY 161, 262, and 262L (If you choose PHY 161 and 262, PHY 263 is recommended.)

Once the science courses are fulfilled, you may take general electives to satisfy the units.

*** Junior level writing course may be satisfied with one of the following:

- BIO 205/205L and 305W or ~~BIO 326 and 326LW~~ **BIO 326/326L and BIO 305 W or BIO 365 W**

**** Capstone courses include 3-4 units from the following:

- BIO 401C, BIO 425C & 425L, BIO 426C & 426L, BIO 435C, BIO 444C, BIO 482C or BIO 488C

CONTACT INFORMATION

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① BIO 305 W Writing In Biology (1)

② { BIO 326 Ecology (3)

 { BIO 326L Ecology Lab (1)

 { BIO 305 W Writing In Biology (1)

⑤ BIO 365W

Scientific Manuscript Preparation

(3)