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NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences

Biomedical Science 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		
BIO 205	Microbiology	3
BIO 205L	Microbiology Lab	1
BIO 305W	Microbiology Writing Lab	1
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

Year 2 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
CHM 238	General Organic Chemistry II	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
MAJOR ELECTIVE	Major Elective	3
CHM 360	Fundamental Biochemistry	3
PHY 111	General Physics I	4
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective 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	3

Year 4 - Fall		
CAPSTONE COURSE	Capstone Course	3
MAJOR ELECTIVE	Major Elective	3
DIV ELECTIVE	Diversity 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
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

University Requirements Specified by Major	
Foundation Requirements: English (FNRQ:ENG)	ENG 105 (4)
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)

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, CHM 238, PHY 111, PHY 112, PHY 161 & PHY 262; however, they are not required.

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

*Major requirements include 23-24 units of electives (maximum of 6 units of non- BIO prefix courses) from:

- BIO 201, 202, 344, 450, 416 (highly recommended)
- Up to 3 units of BIO 300
- BIO 240, 320, 331, 334, 338 338L, 343, 346, 350, 360, 375, 376, 424,440, 440L, 460, 460L, 475, 484 and 545
- Up to 6 units total of BIO 485, BIO 497 or BIO 498
- CHM 238L, CHM 461, CHM 462C, NTS 256, PHI 332

**Major requirements include 28-36 units of science courses 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 a general elective.

- CHM 151, 151L, 152, 152L
- CHM 230 and 230L OR CHM 235, 235L, and 238 OR CHM 235 and CHM 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 strongly recommended

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

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

- BIO 482C (recommended), BIO 401C, BIO 420C, BIO 444C, BIO 465C or BIO 488C

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Four Year Honors Plan

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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		
BIO 205	Microbiology	3
BIO 205L	Microbiology Lab	1
BIO 305W	Microbiology Writing Lab	1
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

Year 2 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
CHM 238	General Organic Chemistry II	3
HON 39X	Honors Advanced Seminar 39X	3
GE COURSE	General Elective Course	3

Year 3 - Fall		
MAJOR ELECTIVE	Major Elective	3
CHM 360	Fundamental Biochemistry	3
PHY 111	General Physics I	4
LANGUAGE 101	Language 101-level Course	4
GE COURSE	General Elective Course	3

Year 3 - Spring		
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
PHY 112	General Physics II	4
LANGUAGE 102	Language 102-level Course	4
GE COURSE	General Elective Course	3

Year 4 - Fall		
CAPSTONE COURSE	Capstone Course	4
MAJOR ELECTIVE	Major Elective	3
DIV ELECTIVE	Diversity 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
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
GE COURSE	General Elective Course	3

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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