NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science
ENVIRONMENTAL SCIENCES: MICROBIOLOGY (EXTENDED MAJOR)

2006-2007 Undergraduate Catalog

Degree Progression Plan

Freshman Year							
1st term				**2nd term**			
CHM 151	General Chemistry I (LAB)	4		CHM 152	General Chemistry II (SAS)	3	
CHM 151L	General Chemistry I Lab (LAB)	1		CHM 152L	General Chemistry II Lab	1	
BIO 181	Unity of Life I (SAS)	3		BIO 182	Unity of Life II	4	
BIO 181L	Unity of Life I Lab	1		ENG 105	Critical Reading and Writing (FNRQ)	4	
MAT 125 or MAT 114	Pre-Calculus or Quantitative Reasoning (FNRQ) **	4 3		MAT 136 or MAT 119	Calculus I (SAS) or Finite Math**	4 3	
GE	General Elective	3					
FYE 101	First Year Experience	1					
	Total units	16-17			Total units	15-16	

Sophomore Year							
3rd term				**4th term**			
ENV 230	Foundations Of Environmental Science: Humans And The Environment	4		ENV 280	Physical and Chemical Processes in the Atmosphere & Hydrosphere	4	
CHM 230	Fundamental Organic Chemistry (SAS)	3		BIO 205	Microbiology (SAS)	4	
CHM 230L	Fundamental Organic Chemistry Lab	1		CHM 360	Fundamental Biochemistry	3	
MAT 131 or *GE*	Topics in Calculus (SAS) or General Elective **	3		CHM 360L	Fundamental Biochemistry Lab	1	
DIV	Diversity	3		*GE*	General Elective	3	
	Total units	14			Total units	15	

Junior Year							
5th term				**6th term**			
ENV 330	Environmental Ecology: Synthesis And Applications	4		ENV 385W	Energy, Resources & Policy	4	
BIO 350	Molecular Genetics	3		ME	Major Elective *	3	
ME	Major Elective*	3		CHM 440	Environmental Chemistry	3	
GLG 101	Physical Geology (SAS)	3		*LS*	Liberal Studies	3	
GLG 103	Physical Geology Lab	1		*DIV*	Diversity	3	
	Total units	14			Total units	16	

Senior Year							
7th term				**8th term**			
ENV 408 or ENV 485	Fieldwork Experience or Undergraduate Research	3		ENV 490C	Senior Seminar in Environmental Sciences	3	
BIO 369	Environmental Microbiology	4		*ME*	Major Elective*	3	
STA 270	Applied Statistics (SAS)	3		POS 359	Environmental Policy (SPW)	3	
LS	Liberal Studies	3		*LS*	Liberal Studies	3	
LS	Liberal Studies	3		*GE*	General Elective	0-2	
	Total units	16			Total units	12-14	

- 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.

A grade of C or better is required for all ENV courses, POS 359 & STA 270.
An average overall GPA of 2.0 or better is required for all math and science courses.

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

*Major Electives include 9-10 units of the following:

- 3 units of an upper-division ENV course
- 6-9 units from BIO 340, 344, 479, and 499.

Math requirement is satisfied by taking either: MAT 125 and 136 **OR MAT 114, 119 and 131.

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
- The diversity requirement may be fulfilled in any part of program of study.
- English placement: http://www.nau.edu/comp/placement.html
- Math placement: http://www.math.nau.edu/placement.html

CONTACT INFORMATION

Environmental Sciences
Building 19, Room 119
Phone: 928-523-9333
Department Chair: Rod Parnell
Phone: 928-523-3329
EMAIL: Roderic.Parnell@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