NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry & Natural Sciences

Bachelor of Science in Engineering
ENVIRONMENTAL ENGINEERING
2009-2010 Undergraduate Catalog

Degree Progression Plan

Mesa Community College courses shown in blue.

Freshman Year							
1st term				2nd term			
CENE 150	Introduction to Environmental Engineering	3		CENE 180	Computer Aided Drafting/Lab	2	
CENE 150L	Environmental Engineering Computations Lab	1		ENG 101/102	ENG 105 Critical Reading and Writing (FNRQ)	4	
CHM 151	CHM 151 General Chemistry I (SCI: LAB)	4		MAT 231	MAT 137 Calculus II (FNRQ)	4	
CHM 151LL	CHM 151L General Chem I Lab (SCI: LAB)	1		PHY 121	PHY 161 University Physics I (SCI: SAS)	4	
ECE 102/103	EGR 186 Intro to Engineering Design/Lab	3		BIO 181	BIO 181 Unity of Life 1 (SCI: SAS)	3	
MAT 221	MAT 136 Calculus I (SCI: SAS)	4		BIO 181	BIO 181L Unity of Life I Lab	1	
NAU 100	Transition to College	1					
	Total units	17			Total units	18	

Sophomore Year							
3rd term				4th term			
CENE 225	Engineering Analysis	3		CENE 280	Environmental Engineering Fundamentals	3	
CENE 281L	Environmental Engineering Lab	1		CENE 282L	Air/Site Investigation Lab	1	
ECE 211	CENE 251 Applied Mechanics: Statics	3		EGR 286	Engineering Design: The Process	3	
MAT 241	MAT 238 Calculus III	4		MAT 262	MAT 239 Differential Equations	3	
CHM 152	CHM 152 General Chemistry II (SCI: SAS)	3		ME 291	Thermodynamics I	3	
PHY 131	PHY 262 University Physics (SCI: SAS)	3		CHM 230	CHM 230 Fund of Organic Chem (SCI: SAS)	3	
	Total units	17			Total units	16	

Junior Year							
5th term				6th term			
CENE 270	Surveying/Lab	3		CENE 332	Solid/Hazardous Waste Management	3	
ECE 215	CENE 253 Mechanics of Materials	3		CENE 333	Applied Hydraulics	3	
CENE 330	Air Quality Engineering	3		CENE 333L	Applied Hydraulics Lab	1	
ME 395	Fluid Mechanics	3		CENE 383	Geotechnical Engineering I	3	
SB Elective	Liberal Studies / Diversity *	3		CENE 383L	Geotechnical Engineering I Lab	1	
HU Elective	Liberal Studies	3		CENE 386W	Engineering Design: The Methods	3	
	Total units	18			Total units	14	

Senior Year							
7th term				8th term			
CENE 410	Unit Options in Environmental Engineering	3		CENE 486C	Engineering Design: Capstone/Lab	3	
CENE 476	Engineering Design: Capstone Preparation	1		*TE*	Technical Elective **	3	
CENE 480	Environmental Transport Process	3		PHI 105	PHI 105 Intro to Ethics or PHI 331 Environmental Ethics (AHI)	3	
CENE 434	Water/Wastewater Engineering	3		*LS*	Liberal Studies	3	
Science Elective	Technical Elective **	3		*LS*	Liberal Studies	3	
SB Elective	Liberal Studies / Diversity *	3					
	Total units	16			Total units	15	

Liberal Studies Distribution blocks

AHI (6 units)	SPW (6 units)	CU (6 units)	Science (7 units)	Additional 3 units to reach 35 total
PHI 105 or PHI 331 (3)			CHM 151 & L (5)	
			PHY 161 (3)	BIO 181 (3)

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PROGRAM INFORMATION

A minimum of 130 units are required for this degree.

You can not have more than one grades of D in your engineering, mathematics and science courses.

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

** Technical electives include 6 units from the following list. At least 3 units must be from the CENE technical electives list.

- CENE technical electives: CENE 418, 420, 430, 433, 435, 440, 450, 460, 462, 468, 499
- Other non-CENE approved electives include: BIO 182, BIO 201; CENE 460; CHM 235, CHM 320, CHM 341; CM 329, CM 491; CS 122; EE 188, EE 425; EGR 389; GGR 239; GLG 101/103, GLG 451; MAT 316, MAT 362; ME 340, ME 451, ME 454, ME 484; PL 201; STA 371, STA 471

GENERAL INFORMATION

- 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.
- 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.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml

CONTACT INFORMATION

Engineering Programs
Building 69, Room 122A
Phone: 928-523-5251
Department Chair: Willie Odem
Phone: 928-523-4449
Email: Wilbert.Odem@nau.edu

Debbie Wildermuth
Academic Services Coordinator
College of Engineering, Forestry & Natural Sciences
Building 21, Room 102
Phone: 928-523-3842
Email: Debbie.Wildermuth@nau.edu