NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science in Engineering
CIVIL ENGINEERING
2005-2006 Undergraduate Catalog

8-Term Plan

Freshman Year

1st term				2nd term			
CENE 150	Introduction to Environmental Engineering	3		PHY 161	University Physics I (SAS)	3	
CHM 151	General Chemistry I (LS)	4		PHY 161L	University Physics I Lab	1	
CHM 151L	General Chemistry I Lab	1		MAT 137	Calculus II (FNRQ)	4	
ENG 105	Critical Reading and Writing (FNRQ)	4		EGR 186	Introduction to Engineering Design	3	
MAT 136	Calculus I (SAS)	4		PHY 105 **OR** PHI 331 (AHI)		3	
FYE 101	First Year Experience	1					
	Total units	17			Total units	14	

Sophomore Year

3rd term				4th term			
CENE 251	Applied Mechanics: Statics	3		CENE 253	Mechanics of Materials	3	
PHY 262	University PHY II (SAS)	3		CENE 253L	Mechanics Materials Lab	1	
MAT 238	Calculus III	3		EGR 286	Engineering Design: Process	3	
EGR 225	Engineering Analysis	3		MAT 239	Differential Equations	3	
CENE 180	Computer Aided Drafting	2		ME 291	Thermodynamics I	3	
CENE 270	Plane Surveying/Lab	3		Liberal Studies/Diversity		3	
	Total units	17			Total units	16	

Junior Year

5th term				6th term			
CENE 376	Structural Analysis I	3		CENE 333	Applied Hydraulics	3	
EGR 252	Applied Mechanics: Dynamics	3		CENE 333L	Applied Hydraulics Lab	1	
ME 395	Fluid Mechanics	3		CENE 383	Soil Mechanics & Foundations	4	
Science Elective	**	3		CENE 386W	Engineering Design: Methods	3	
EE 188	Electrical Engineering I	3		CENE 433	Hydrology & Flood	3	
				Liberal Studies/Diversity		3	
				Meet with advisor prior to enrolling in 7th term			
	Total units	15			Total units	17	

Senior Year

7th term				8th term			
CENE 331	Sanitary Engineering	3		CENE 420	Traffic Studies & Signals	3	
CENE 418	Highway Engineering	3		CENE 486C	Engineering Design: Capstone	3	
CENE 438	Reinforced Concrete	3		Technical Elective	***	3	
CENE 476	Senior Design Seminar	1		Liberal Studies		3	
CENE 450	Geotechnical Evaluation	3		Liberal Studies		3	
Technical Elective	***	3					
Submit graduation application during 7th term							
	Total units	16			Total units	15	

PROGRAM INFORMATION

A minimum of 126 units are required for this degree.

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

** Approved science electives include 3-4 units of: BIO 181/181L, CHM 152, CHM 440, GLG 101/103, PHY 263 or other courses approved by department.

*** Approved 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 377, CENE 436, CENE 437, CENE 499, CENE 499, CENE 468.
- Other non-CENE approved electives include: CS 122, CM 329, CM 391, CM 460, EGR 325, EGR 389, GGR 239, GLG 360, GLG 451, MAT 316, MAT 362, STA 371, STA 471, STA 472, ME 340, ME 441, ME 442, ME 451, ME 454, ME 455, ME 484, PL 201

GENERAL INFORMATION

- This 8-term plan is to be used in conjunction with the academic catalog and degree audit report.
- 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.
- 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.
- 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.math.nau.edu/master.html?http://www.math.nau.edu/odin.html

CONTACT INFORMATION

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