NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science
ENGINEERING PHYSICS
2005-2006 Undergraduate Catalog

8-Term Plan

Freshman Year

1st term				2nd term			
PHY 161	University Physics I	3		PHY 262	University Physics II	3	
PHY 161L	University Physics I Lab	1		PHY 262L	University Physics II Lab	1	
MAT 136	Calculus I (SAS)	4		MAT 137	Calculus II (FNRQ)	4	
CHM 151: 151L	General Chemistry I and Lab (LS)	5		ENG 105	Critical Reading and Writing (FNRQ)	4	
EGR 186	Introduction to Engineering: Design	3		CHM 152	General Chemistry II (SAS)	3	
PHY 103	First Year Seminar	1					
	Total units	17			Total units	15	

Sophomore Year

3rd term				4th term			
PHY 263	University Physics III	3		PHY 361	Modern Physics	3	
MAT 238	Calculus III	4		MAT 239	Differential Equations	3	
CENE 225	Engineering Analysis **	3		EGR 286	Engineering Design: Process	3	
EE 188	Electrical Engineering I	3		CENE 251	Applied Mechanics Statics **	3	
EE 188L	Electrical Engineering I Lab	1		Diversity		3	
	Total units	14			Total units	15	

Junior Year

5th term				6th term			
PHY 321	Mechanics I	3		PHY 476C	Senior Project I	1	
Emphasis Course	****	3		PHY 331	Electricity & Magnetism I	3	
Emphasis Course	****	3		PHY 333W	Advanced Lab	3	
Emphasis Course	****	3		Emphasis Course	****	3	
Liberal Studies		3		Liberal Studies/ Diversity ***		3	
				Liberal Studies		3	
				Meet with advisor prior to enrolling in 7th term			
	Total units	15			Total units	16	

Senior Year

7th term				8th term			
Capstone Course	*	3		Emphasis Course	****	3	
Emphasis Course	****	4		Emphasis Course	****	3	
Emphasis Course	****	3		Emphasis Course	****	3	
Liberal Studies		3		Liberal Studies		3	
				General Elective		3	
Submit graduation application during 7th term							
	Total units	13			Total units	15	

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

* Capstone Course includes one of the following: PHY 486C, EE 486C, CENE 486C or ME 486C

** EGR 225 was changed to CENE 225. EGR 251 was changed to CENE 251. Either course will satisfy the requirement.

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

********Complete 28 units in one of the three emphases:
Environmental Engineering Emphasis (28 units) - PHY 322, PHY 451, EGR 252 (now ME 252), CENE 150, CENE 253, CENE 253L, CENE 280, CENE 281L, one of CENE 330, CENE 331, CENE 332, or CENE 333. Also, complete 5 additional units of 300 or 400 level technical courses from BIO, CENE, CHM, EE, GLG, MAT, ME, or PHY in consultation with your advisor.

Mechanical Engineering Emphasis (28 units) - PHY 322, PHY 332, EGR 252 (now ME 252), CENE 253, CENE 253L, ME 291, ME 365, ME 395. Also, complete 6 additional units of 300 or 400 level technical courses from BIO, CENE, CHM, EE, GLG, MAT, ME, or PHY in consultation with your advisor.

Semiconductor Emphasis (28 units) - PHY 264, PHY 332, PHY 441, PHY 471, EE 280, EE 370, EE 471, EE 472. Also, complete 2 additional units of 300 or 400 level technical courses from BIO, CENE, CHM, EE, GLG, MAT, ME, or PHY in consultation with your advisor.

You may not count more than one grade below a C in a physics or astronomy course toward the major requirements for this degree.

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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