NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry & Natural Sciences

Bachelor of Science
Engineering Physics
Mechanical Engineering Emphasis

2009-2010 Undergraduate Catalog

Degree Progression Plan

Freshman Year							
1st term				2nd term			
PHY 161	University Physics I	4		PHY 262	University Physics II	3	
MAT 136	Calculus I (SCI: SAS)	4		PHY 262L	University Physics II Lab	1	
CHM 151	General Chemistry I (SCI: LAB)	4		MAT 137	Calculus II (FNRQ)	4	
CHM 151L	General Chemistry I Lab (SCI: LAB)	1		ENG 105	Critical Reading & Writing (FNRQ)	4	
EGR 186	Introduction to Engineering: Design	3		CHM 152	General Chemistry II (SCI: 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		PHY 265	Introduction to Computational Physics	3	
CENE 225	Engineering Analysis	3		MAT 239	Differential Equations	3	
EE 188	Electrical Engineering I	3		EGR 286	Engineering Design: Process	3	
EE 188L	Electrical Engineering I Lab	1		*LS/DIV*	Liberal Studies/ 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	
CENE 251	Applied Mechanics Statics	3		PHY 333W	Advanced Lab	3	
ME 291	Thermodynamics I	3		PHY 331	Electricity and Magnetism I	3	
CS 122	Programming for Engineering & Science (SCI: SAS) **	3		CENE 253	Mechanics of Materials	3	
LS	Liberal Studies	3		CENE 253L	Mechanics of Materials Lab	1	
				LS/DIV	Liberal Studies/Diversity *	3	
	Total units	15			Total units	14	

Senior Year							
7th term				8th term			
PHY 486C	Senior Project II	3		ME 386	Machine Design	3	
ME 340	Materials Science	3		ME	Major Elective ***	3	
ME 252	Applied Mechanical Dynamics	3		ME	Major Elective ***	3	
ME 395	Fluid Mechanics	3		*LS*	Liberal Studies	3	
LS	Liberal Studies	3		*LS*	Liberal Studies	3	
	Total units	15			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
			CHM 151 & L (5)	
			CHM 152 (3)	MAT 136 (4)

Revised 4/29/2009

PROGRAM INFORMATION

A minimum of 120 units are required for this degree.

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

** CS 122 is not required for this degree, but is a pre-requisite for ME 386.

***Major Electives include 6 additional units of 300-400 level technical courses chosen 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 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

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