NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science in Engineering
MECHANICAL ENGINEERING
2008-2009 Undergraduate Catalog
Degree Progression Plan

Freshman Year							
1st term				2nd term			
ME 180	Computer Aided Design	2		MAT 137	Calculus II (FNRQ)	4	
EGR 186	Introduction to Engineering Design	3		ENG 105	Critical Reading and Writing (FNRQ)	4	
MAT 136	Calculus I (SCI: SAS)	4		CHM 151	General Chemistry I (SCI: SAS)	4	
PHY 161	University Physics I and Lab (SCI: LAB)	3		CHM 151L	General Chemistry I Lab	1	
PHY 161L	University Physics I Lab (SCI: LAB)	1		PHY 262	University Physics II (SCI: SAS)	3	
LS	Liberal Studies	3					
FYE 101	First Year Experience	1					
	Total units	17			Total units	16	

Sophomore Year							
3rd term				4th term			
EGR 286	Engineering Design: Process	3		ME 252	Applied Mechanics: Dynamics	3	
EE 188	Electrical Engineering I	3		CENE 253	Mechanics of Materials	3	
EE 188L	Electrical Engineering I Lab	1		CENE 253L	Mechanics of Materials lab	1	
CENE 251	Applied Mechanics: Statics	3		ME 291	Thermodynamics	3	
MAT 238	Calculus III	4		MAT 239	Differential Equations	3	
LS/DIV	Liberal Studies/Diversity *	3		*LS*	Liberal Studies	3	
	Total units	17			Total units	16	

Junior Year							
5th term				6th term			
ME 340	Materials Science	3		ME 386	Machine Design	3	
ME 395	Fluid Mechanics	3		ME 392	Thermodynamics II	3	
CENE 225	Engineering Analysis	3		MAT 362	Numerical Methods	3	
CS 122	Programming for Engineering & Science (SCI: SAS)	3		ENG 302W or ENG 305W	Technical Writing or Writing in Disciplinary Communities	3	
LS	Liberal Studies	3		*DE*	Depth Elective **	3	
	Total units	15			Total units	15	

Senior Year							
7th term				8th term			
ME 476C	Mechanical Engineering Design I	3		ME 486C	Mechanical Engineering Design II	3	
ME 495	Thermal Laboratory	3		*DE*	Depth Elective **	3	
ME 350	Heat Transfer	3		*BE*	Breadth Elective ***	3	
DE	Depth Elective **	3		*BE*	Breadth Elective ***	3	
BE	Breadth Elective ***	3		*LS*	Liberal Studies	3	
LS/DIV	Liberal Studies/Diversity*	3					
	Total units	18			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
			PHY 161 & 161L (3)	
			PHY 262 (3)	CHM 151 (4)

Revised 3/6/2008

PROGRAM INFORMATION

A minimum of 128 units are required for this degree.

You can not have more than two grades of D in your engineering and computer science courses.

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

**Depth electives include 9 units from the following lists or 300-400 level engineering courses with approval from your advisor. It is encouraged that you select course from only one of the two areas.

- Mechanical design: EE 458, ME 381, ME 454, ME 455, ME 467 or ME 484
- Fluid & thermal sciences: ME 441, ME 442, ME 444, ME 451 or ME 454

*** Breadth electives include 9 additional units of upper-division courses in engineering, natural sciences, business or mathematics as approved by your academic advisor.

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.cens.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml

CONTACT INFORMATION

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