

Bachelor of Science in Engineering ELECTRICAL ENGINEERING

Electrical Engineering Emphasis 2010-2011 Undergraduate Catalog

Degree Progression Plan

Freshman Year								
1 st term				2 nd term				
EE 110	Digital Logic and Lab	4		EE 188	Electrical Engineering I	3		
EGR 186	Introduction to Engineering Design	3		EE 188L	Electrical Engineering I Lab	1		
ENG 105	Critical Reading and Writing (FNRQ)	4		MAT 137	Calculus II (FNRQ)	4		
MAT 136	Calculus I (SCI: SAS)	4		PHY 161	University Physics I (SCI: LAB)	4		
NAU 100	Transition to College	1		CS 122	Programming for Engineering & Science (SCI: SAS)	3		
				CS 122L	Programming for Engineering & Science Lab	1		
	Total units				Total units	16		

Sophomore Year							
3 rd term			4 th term				
CENE 225	Engineering Analysis	3	EE 215	Microprocessors w/ Lab	4		
EE 222	Intermediate Programming	3	EE 280	Introduction to Electronics	4		
MAT 238	Calculus III	4	MAT 239	Differential Equations	3		
PHY 262	University Physics II (SCI: SAS) **	3	EGR 286	Engineering Design: Process	3		
PHI 105	Introduction to Ethics (AHI)	3	PHY 263	University Physics III	3		
	Total units	16		Total units	17		

Junior Year							
	5 th term	6 th term					
EE 325	Engineering Analysis II	3	EE 310	Fundamentals of Computer Engineering	4		
EE 364	Fundamentals of Electromagnetics	4	EE 348	Fundamentals of Signals & Systems	4		
EE 380	Fundamentals of Electronics: Circuits	4	EE 386W	Engineering Design: Methods	3		
CHM 151	General Chemistry I (SCI: SAS)	4	ME	Major Elective ***	3		
CHM 151L	General Chemistry I Lab **	1	LS/DIV	Liberal Studies / Diversity *	3		
	Total units	16		Total units	17		

Senior Year								
7 th term			8 th term					
EE 476C	Engineering Design Procedures Lab	1	EE 486C	Capstone Design	3			
ME	Major Elective ***	3	ME	Major Elective ***	3			
ME	Major Elective ***	3	ME	Major Elective ***	3			
ME	Major Elective ***	3	LS	Liberal Studies	3			
LS/DIV	Liberal Studies / Diversity *	3	LS	Liberal Studies	3			
LS	Liberal Studies	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
PHI 105			PHY 161 (4)	to reach 35 total
			CS 122 (3)	PHY 262 (3)

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PROGRAM INFORMATION

A minimum of 128 units are required for this degree.

Be aware that some courses (especially 300 & 400 level courses) are only offered once a year (fall only or spring only). These courses may be pre-requisites for future courses. Check with your department for a current course rotation.

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.

** Completion of either CHM 151L OR PHY 262L is required. (CHM 151L is highly recommended.)

*** Major electives include 18 units from the following:

- 3 units from any course with the following prefixes: AST, BIO, CENE, CENS, CHM, CM, CS, EGR, ENV, FOR, GLG, MAT, ME, PHY, PHS, or STA (except any recitations, BIO 100/100L, CS 110, EGR 101 or 102, ENV 101/101L, FOR 101, GLG 100/100L, PHY 101/101L, PHY 103, PHS 101/101L and MAT classes numbered lower than MAT 136).
- 9 units from any 400-level EE courses
- 6 units from any 400 or 500-level EE courses

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/LScourselist.htm
 - 6 units of diversity courses: (3 units in Global & 3 units in Ethnic): http://www4.nau.edu/aio/DiversityCourseList.htm
 - 30 units of upper division courses (300-400 level), 18 of these units must be taken at NAU
- English placement: http://testing.nau.edu/exams/placement.html
- Math placement: http://www.cefns.nau.edu/Academic/Math/studentInformation/Placement/Placement.shtml

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