NORTHERN ARIZONA UNIVERSITY
College of Engineering & Natural Sciences

Bachelor of Science in Engineering
ELECTRICAL ENGINEERING WITH EMPHASIS IN GENERAL PROGRAM, SYSTEM, OR IC ELECTRONICS DESIGN

2005-2006 Undergraduate Catalog

8-Term Plan

Freshman Year

1st term				2nd term			
EE 110	Digital Logic and Lab	4		EE 188	Electrical Engineering I	3	
ENG 105	Critical Reading and Writing (FNRQ)	4		EE 188L	Electrical Engineering I Lab	1	
MAT 136	Calculus I (SAS)	4		PHY 161	University Physics I (LS)	3	
EGR 186	Introduction to Engineering Design	3		PHY 161L	University Physics I Lab	1	
FYE 101	First Year Experience	1		MAT 137	Calculus II (FNRQ)	4	
				CS 122	Introduction to Programming (SAS)	3	
	Total units	16			Total units	15	

Sophomore Year

3rd term				4th term			
PHY 262	University Physics II (SAS) **	3		PHY 263	University Physics III (SAS)	3	
MAT 238	Calculus III	3		MAT 239	Differential Equations	3	
EE 222	Intermediate Programming	3		EE 215	Microprocessors w/ Lab	4	
EGR 225	Engineering Analysis	3		EGR 325	Engineering Analysis II	3	
EE 280	Introduction to Electronics	4		EGR 286	Engineering Design: Process	3	
	Total units	16			Total units	16	

Junior Year

5th term				6th term			
CHM 151	General Chemistry I (SAS)	4		EE 386	Engineering Design: Methods	3	
CHM 151L	General Chemistry I Lab **	1		EE 370	Fundamentals of Semiconductors	4	
EE 380	Fundamentals of Electronics: Circuits	4		EE 348	Fundamentals of Signals & Systems	4	
EE 364	Fundamentals of Electromagnetics	4		ENG 302W or ENG 305W	Technical Writing or Writing in Disciplinary Communities	3	
EE 310	Fundamentals of Computer Engineering	4		Liberal Studies/ Diversity *		3	
				Meet with advisor prior to enrolling in 7th term			
	Total units	17			Total units	17	

Senior Year

7th term				8th term			
EE 476C	EGR Design Procedure	1		EE 486C	Capstone Design	3	
Engineering Science Elective ***		3		Professional Elective ****		3	
Professional Elective ****		3		Engineering Science Elective ***		3	
Professional Elective ****		3		Liberal Studies		3	
Liberal Studies/ Diversity *		3		Liberal Studies		3	
Liberal Studies		3					
Submit graduation application during 7th term							
	Total units	16			Total units	15	

PROGRAM INFORMATION

A minimum of 128 units are required for this degree.

*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.)

***Engineering Science electives include 6 units from EGR 251, EGR 252, CENE 150, CENE 280, ME 291, ME 340, ME 350, or ME 451

**** Professional electives include 9 units from the following:

- General emphasis -9 additional units from any 400-level EE course
- IC Electronics Design emphasis – 9 units from EE 471, EE 472, EE 480 or EE 482
- Systems Design emphasis – 6 units from EE 410, EE 430, EE 448 or EE 458 and 3 additional units from any 400-level EE course.

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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