NORTHERN ARIZONA UNIVERSITY
College of Engineering, Forestry & Natural Sciences

# Bachelor of Science in Engineering
# ELECTRICAL ENGINEERING
## Computer Engineering Emphasis
2009-2010 Undergraduate Catalog
## Degree Progression Plan

Mesa Community College courses shown in blue.

| Freshman Year | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1st term | | | | 2nd term | | | |
| CSC 120 | EE110 Digital Logic and Lab | 4 | | EEE 202 | EE 188 Electrical Engineering I | 3 | |
| ECE 102/103 | EGR 186 Introduction to Engineering Design | 3 | | EEE 202 | EE 188L Electrical Engineering I Lab | 1 | |
| ENG 101/102 | ENG 105 Critical Reading and Writing(FNRQ) | 4 | | MAT 231 | MAT 137 Calculus II (FNRQ) | 4 | |
| MAT 221 | MAT 136 Calculus I (SCI: SAS) | 4 | | PHY 121 | PHY 161 University Physics I (SCI: LAB) | 4 | |
| NAU 100 | Transition to College | 1 | | CSC 150 | CS 122 Programming for Engineering & Science (SCI: SAS) | 3 | |
| | | | | CS 122L | Programming for Engineering & Science Lab | 1 | |
| | | | | | | | |
| | Total units | 16 | | | Total units | 16 | |

| Sophomore Year | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3rd term | | | | 4th term | | | |
| CENE 225 | Engineering Analysis | 3 | | EE 215 | Microprocessors & Lab | 4 | |
| CSC 100AB | CS 126 Computer Science I | 3 | | EE 280 | Introduction to Electronics | 4 | |
| CS 126L | Computer Science I Lab | 1 | | MAT 262 | MAT 239 Differential Equations | 3 | |
| MAT 241 | MAT 238 Calculus III | 4 | | EGR 286 | Engineering Design: Process | 3 | |
| MAT 227 | MAT 226 Discrete Mathematics | 3 | | PHI 105 | PHI 105 Introduction to Ethics (AHI) | 3 | |
| PHY 131 | PHY 262 University Physics II (SCI: SAS) ** | 3 | | | | | |
| | Total units | 17 | | | Total units | 17 | |

| Junior Year | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5th term | | | | 6th 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 Electronic Circuits | 4 | | EE 386W | Engineering Design: Methods | 3 | |
| CSC 210 | CS 136 Computer Science II | 3 | | CS 249 | Data Structures | 3 | |
| CS 136L | Computer Science II Lab | 1 | | *SB Elective* | Liberal Studies / Diversity * | 3 | |
| | Total units | 15 | | | Total units | 17 | |

| Senior Year | | | | | | | |
|---|---|---|---|---|---|---|---|
| 7th term | | | | 8th term | | | |
| EE 410 or EE 412 | Embedded Control or Digital Systems Design | 3 | | EE 486C | Capstone Design | 3 | |
| EE 476C | Engineering Design Procedures Lab | 1 | | *ME* | Major Elective *** | 3 | |
| *ME* | Major Elective *** | 3 | | *SB Elective* | Liberal Studies / Diversity * | 3 | |
| CHM 151 | CHM 151 General Chemistry I (SCI: SAS) | 4 | | *LS* | Liberal Studies | 3 | |
| CHM 151L | CHM 151L General Chemistry I Lab ** | 1 | | *LS* | Liberal Studies | 3 | |
| *HU Elective* | 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 |
|---|---|---|---|---|
| PHI 105 (3) | | | PHY 161 (4) | |
| | | | CS 122 (3) | PHY 262 (3) |

## 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.

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

*** Major Electives include 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/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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