



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences
Electrical Engineering Bachelor of Science in Engineering

Computer Engineering - Emphasis

2015-2016

-2014-2015 Undergraduate Catalog

Four Year Progression Plan

Sample Progression Plans are for planning purposes only; see the catalog for official details.

Year 1 - Fall		
EE 110	Intro To Digital Logic	4
EGR 186	Intro To Engineering Design	3
MAT 136	Calculus I	4
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
NAU 100	Transition To College	1

Year 1 - Spring		
EE 188	Electrical Engineering I	3
EE 188L	Electrical Engineering I Lab	1
MAT 137	Calculus II	4
PHY 161	University Physics I	4
ENG 105	Critical Read/Writing In Univ	4

Year 2 - Fall		
Choose one of the options below:		
Option: A		
<i>CENE 225</i>	<i>Engineering Analysis</i>	3
Option: B		
<i>STA 275</i>	<i>Statistical Analysis</i>	3
CS 126	Computer Science I	3
CS 126L	Computer Science I Lab	1
MAT 238	Calculus III	4
EGR 286	Engineering Design: Process	3
PHY 262	University Physics II	3

Year 2 - Spring		
EE 215	Microprocessors	4
EE 280	Introduction To Electronics	4
MAT 226	Discrete Mathematics	3
MAT 239	Differential Equations	3
PHI 105	Introduction To Ethics	3

Year 3 - Fall		
EE 325	Engineering Analysis II	3
EE 364	Fdmtls Of Electromagnetics	4
EE 380	Fdmtls Of Electronic Circuits	4
CS 136	Computer Science II	3
CS 136L	Computer Science II Lab	1
Engineering program fee assessed		

Year 3 - Spring		
EE 310	Fdmtls Of Computer Engineering	4
EE 348	Fdmtls Of Signals & Systems	4
Choose one of the options below:		
Option: A		
<i>EE 386W</i>	<i>Engineering Design: Methods</i>	3
Option: B		
<i>EGR 386W</i>	<i>Eng Design: The Methods</i>	3
CS 249	Data Structures	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
Engineering program fee assessed		

Year 4 - Fall		
Choose one of the options below:		
Option: A		
<i>EE 410</i>	<i>Embedded Control</i>	3
Option: B		
<i>EE 412</i>	<i>Digital Systems Design</i>	3
Choose one of the options below:		
Option: A		
<i>EE 476C</i>	<i>Project Design Procedures</i>	1
Option: B		
<i>CAPSTONE COURSE</i>	<i>Capstone Course</i>	2
MAJOR ELECTIVE	Major Elective	3
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
LIBST COURSE	Liberal Studies Course	3
Submit graduation application this term.		
Engineering program fee assessed		

Year 4 - Spring		
Choose one of the options below:		
Option: A		
<i>EE 486C</i>	<i>Capstone Design</i>	3
Option: B		
<i>CAPSTONE COURSE</i>	<i>Capstone Course</i>	3
MAJOR ELECTIVE	Major Elective	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3
LIBST COURSE	Liberal Studies Course	3
Engineering program fee assessed		

University Requirements Specified by Major	
Foundation Requirements:English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRQ:MAT)	MAT 137 (4)
Aesthetic and Humanistic Inquiry (AHI)	PHI 105 (3)
Science/Applied Science (SAS/LAB)	CS 122 (2), PHY 161 (4)
Liberal Studies Elective	PHY 262 (3)

① EE 286 Electrical Engineering Design: The Process (3)

② EE 476C Project Design Procedures (2)

PROGRAM INFORMATION

A minimum of ~~127~~¹²⁸ units are required for the Bachelors degree.

You must have a grade of C or better in all your required classes and no more than two grades of D in your major elective courses.

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

** Major Electives include 6 units that may be any 400- or 500-level EE classes. Only 3 units of letter-graded individualized study (EE485 or EE497) may be used to satisfy the requirements for the Bachelors degree.

CONTACT INFORMATION

Academic Services Office
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Building 21, Room 132
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EGR 186	Intro To Engineering Design	3
MAT 136	Calculus I	4
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
HON 100	Introduction To Honors	1
HON 190	Sem Critical Readng & Writing I	3

Year 1 - Spring		
EE 188	Electrical Engineering I	3
EE 188L	Electrical Engineering I Lab	1
MAT 137	Calculus II	4
PHY 161	University Physics I	4
HON 29X	Honors Topic Seminar 29X	4

Year 2 - Fall		
Choose one of the options below:		
Option: A		
<i>CENE 225</i>	<i>Engineering Analysis</i>	3
Option: B		
<i>STA 275</i>	<i>Statistical Analysis</i>	3
EE 222	Intermediate Programming	3
EGR 286	Engineering Design: Process	3
MAT 238	Calculus III	4
PHY 262	University Physics II	3

Year 2 - Spring		
EE 215	Microprocessors	4
EE 280	Introduction To Electronics	4
MAT 239	Differential Equations	3
PHY 263	University Physics III	3
PHI 105	Introduction To Ethics	3

Year 3 - Fall		
EE 325	Engineering Analysis II	3
EE 364	Fdmtls Of Electromagnetics	4
EE 380	Fdmtls Of Electronic Circuits	4
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Engineering program fee assessed		

Year 3 - Spring		
EE 310	Fdmtls Of Computer Engineering	4
EE 348	Fdmtls Of Signals & Systems	4
Choose one of the options below:		
Option: A		
<i>EE 386W</i>	<i>Engineering Design: Methods</i>	3
Option: B		
<i>EGR 386W</i>	<i>Eng Design: The Methods</i>	3
MAJOR ELECTIVE	Major Elective	3
HON 39X	Honors Advanced Seminar 39X	3
Engineering program fee assessed		

Year 4 - Fall		
Choose one of the options below:		
Option: A		
EE 476C	Project Design Procedures	1
Option: B		
<i>CAPSTONE HON COURSE</i>	<i>Honors Capstone Course</i>	2
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3
Submit graduation application this term.		
Engineering program fee assessed		

Year 4 - Spring		
Choose one of the options below:		
Option: A		
<i>EE 486C</i>	<i>Capstone Design</i>	3
Option: B		
<i>CAPSTONE HON COURSE</i>	<i>Honors Capstone Course</i>	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3
Engineering program fee assessed		

University Requirements Specified by Major	
Foundation Requirements: Math (FNRO:MAT)	MAT 137 (4)

Aesthetic and Humanistic Inquiry (AHI)	PHI 105 (3)
Science/Applied Science (SAS/LAB)	CS 122 (2), PHY 161 (4)
Liberal Studies Elective	PHY 262 (3)

① EE 286 Electrical Engineering Design: The Process (3)

② EE 476C Project Design Procedures (2)

University Honors Program

1124 S Knoles Dr
PO Box: 5689
Flagstaff AZ 86011-5689

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Email: Honors@nau.edu
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College of Engineering, Forestry, and Natural Sciences

2112 S Huffer Ln
PO Box: 5621
Flagstaff AZ 86011

Engineering and Technology - (Bldg #69)
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Phone: 928-523-2408
Fax: 928-523-2300
<http://nau.edu/CEFNS/Welcome/>



NORTHERN ARIZONA UNIVERSITY

College of Engineering, Forestry, and Natural Sciences Electrical Engineering Bachelor of Science in Engineering Electrical Engineering - Emphasis

2015-2016 - 2014-2015 Undergraduate Catalog

Four Year Progression Plan

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Year 1 - Fall		
EE 110	Intro To Digital Logic	4
EGR 186	Intro To Engineering Design	3
MAT 136	Calculus I	4
CS 122	Programming For Eng & Sci	2
CS 122L	Prog For Egr & Sci Lab	1
NAU 100	Transition To College	1

Year 1 - Spring		
EE 188	Electrical Engineering I	3
EE 188L	Electrical Engineering I Lab	1
MAT 137	Calculus II	4
PHY 161	University Physics I	4
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Year 2 - Fall		
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Option: A		
CENE 225	Engineering Analysis	3
Option: B		
STA 275	Statistical Analysis	3
EE 222	Intermediate Programming	3
EGR 286	Engineering Design: Process	3
MAT 238	Calculus III	4
PHY 262	University Physics II	3

Year 2 - Spring		
EE 215	Microprocessors	4
EE 280	Introduction To Electronics	4
MAT 239	Differential Equations	3
PHY 263	University Physics III	3
PHI 105	Introduction To Ethics	3

Year 3 - Fall		
EE 325	Engineering Analysis II	3
EE 364	Fdmtns Of Electromagnetics	4
EE 380	Fdmtns Of Electronic Circuits	4
CHM 151	General Chemistry I	4
CHM 151L	General Chemistry I Lab	1
Engineering program fee assessed		

Year 3 - Spring		
EE 310	Fdmtns Of Computer Engineering	4
EE 348	Fdmtns Of Signals & Systems	4
Choose one of the options below:		
Option: A		
EE 386W	Engineering Design: Methods	3
Option: B		
EGR 386W	Eng Design: The Methods	3
MAJOR ELECTIVE	Major Elective	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
Engineering program fee assessed		

Year 4 - Fall		
Choose one of the options below:		
Option: A		
EE 476C	Project Design Procedures	1
Option: B		
CAPSTONE COURSE	Capstone Course	2
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LS/DIV COURSE	Liberal Studies/Diversity Course	3
LIBST COURSE	Liberal Studies Course	3
Submit graduation application this term.		
Engineering program fee assessed		

Year 4 - Spring		
Choose one of the options below:		
Option: A		
EE 486C	Capstone Design	3
Option: B		
CAPSTONE COURSE	Capstone Course	3
MAJOR ELECTIVE	Major Elective	3
MAJOR ELECTIVE	Major Elective	3
LIBST COURSE	Liberal Studies Course	3
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Engineering program fee assessed		

University Requirements Specified by Major	
Foundation Requirements:English (FNRQ:ENG)	ENG 105 (4)
Foundation Requirements:Math (FNRQ:MAT)	MAT 137 (4)

Aesthetic and Humanistic Inquiry (AHI)	PHI 105 (3)
Science/Applied Science (SAS/LAB)	CS 122 (2), PHY 161 (4)
Liberal Studies Elective	PHY 262 (3)

① EE 286 Electrical Engineering Design: The Process (3)

② EE 476C Project Design Procedures (2)

PROGRAM INFORMATION

A minimum of 127 units are required for the Bachelors degree. You must have a C or better in all your required classes and no more than two grades of D in your major elective courses.

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

** Major Electives include the following 18 units:

- 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 for 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.
- Only 3 units of letter-graded individualized study (EE 485 or EE 497) may be used to satisfy the requirements for the Bachelors degree.

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