ELECTRICAL ENGINEERING, BSEE

Requirements for Students Matriculating in or before Academic Year 2022-2023. Learn more about University Academic Regulation 3.1 (http://catalog.okstate.edu/university-academic-regulations/ #matriculation).

Minimum Overall Grade Point Average: 2.00

Total Hours: 124

Code	Title	Hours
General Education F	Requirements	
All General Education of upon completion of	on coursework requirements are satisfied this degree plan	
English Composition	_	
ENGL 1113	Composition I 1	3
or ENGL 1313	Critical Analysis and Writing I	
ENGL 3323	Technical Writing	3
American History & 0	Government	
Select one of the fo	llowing:	3
HIST 1103	Survey of American History	
HIST 1483	American History to 1865 (H)	
HIST 1493	American History Since 1865 (DH)	
POLS 1113	American Government	3
Analytical & Quantita	tive Thought (A)	
MATH 2144	Calculus I (A) (With a grade of "C" or better)	4
MATH 2153	Calculus II (A) (With a grade of "C" or better)	3
MATH 2163	Calculus III (With a grade of "C" or better)	3
Humanities (H)		
Courses designated	(H)	6
Natural Sciences (N)		
Must include one La	aboratory Science (L) course	
CHEM 1414	General Chemistry for Engineers (LN)	4
or CHEM 1515	Chemistry II (LN)	
PHYS 2014	University Physics I (LN) (With a grade of "C" or better)	4
PHYS 2114	University Physics II (LN) (With a grade of "C" or better)	4
Social & Behavioral S	Sciences (S)	
Course designated	(S)	3
Hours Subtotal		43
Diversity (D) & Inter	national Dimension (I)	
May be completed i	n any part of the degree plan	
Select at least one I	Diversity (D) course	
Select at least one I	nternational Dimension (I) course	
College/Departmen	tal Requirements	
Basic Science		
Mathematics		
MATH 2233	Differential Equations (With a grade of "C" or better)	3
Engineering		
ENGR 1111	Introduction to Engineering	1

Engineering Science		
ENSC 2113	Statics (With a grade of "C" or better)	3
ENSC 2611	Electrical Fabrication Lab (With a grade of "C" or better)	1
ECEN 3213	Computer Based Systems in Engineering (With a grade of "C" or better)	3
Computer Science	O	0
CS 1113	Computer Science I (A) (With a grade of "C" or better)	3
CS 2433	C/C++ Programming (With a grade of "C" or better)	3
Electrical & Computer	Engineering	
ECEN 2714	Fundamentals of Electric Circuits (With a grade of "C" or better)	4
ECEN 3233	Digital Logic Design (With a grade of "C" or better)	3
Hours Subtotal		24
Major Requirements		
Mathematics		
MATH 3013	Linear Algebra (A) (With a grade of "C" or better)	3
Electrical & Computer	Engineering	
ECEN 3314	Electronic Devices and Applications	4
ECEN 3513	Signal Analysis	3
ECEN 3613	Applied Fields and Waves I	3
ECEN 3714	Network Analysis (With a grade of "C" or better)	4
ECEN 3903	Introduction to Semiconductor Devices (With a grade of "C" or better in ECEN 3903 or PHYS 3313)	3
or PHYS 3313	Introduction to Semiconductor Device Physics	
ECEN 4013	Design of Engineering Systems	3
ECEN 4024	Capstone Design	4
ECEN 4503	Applications of Probability and Statistics to Random Signals	3
Industrial Engineering	& Management	
IEM 3503	Engineering Economic Analysis	3
ECEN Junior Electives		
	owing with advisor approval:	3
ECEN 3113	Energy, Environment and Economics	
ECEN 3623	Applied Fields and Waves II	
ECEN 3723	Systems I	
ECEN 3913	Solid State Electronic Devices	
ECEN Electives		
including optionally	ses from the departmentally approved list, one or more courses listed, but not taken, or Electives list above, and with advisor	18
Hours Subtotal		54
Controlled Electives		
Select 3 hours of the	following controlled electives:	3
ENSC 2123	Elementary Dynamics	
ENSC 2143	Strength of Materials	
ENSC 2213	Thermodynamics	

Engineering courses 3000 level and above

Other courses such as MATH, CS, STAT, etc., may be approved by advisor

Hours Subtotal	3
Total Hours	124

Total Hours

If a "B" or higher is not earned in ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I, then ENGL 1213 Composition II or ENGL 1413 Critical Analysis and Writing II is also required (per Academic Regulation 3.5 (http://catalog.okstate.edu/university-academicregulations/#english-composition)).

Graduation Requirements

- 1. A minimum Technical GPA of 2.00. The Technical GPA is calculated from all courses in the curriculum with a prefix belonging to the degree program, or substitutions for these courses.
- 2. A "C" or better in courses listed above as requiring a C or better.
- 3. The major engineering design experience, capstone course, is satisfied by ECEN 4013 Design of Engineering Systems and ECEN 4024 Capstone Design.

Additional State/OSU Requirements

- · At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- · Limit of: one-half of major course requirements as transfer work; onefourth of hours earned by correspondence; 8 transfer correspondence hours.
- · Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- · Degrees that follow this plan must be completed by the end of Summer 2028.