

Academic Requirements Worksheet: Electrical & Electronic Engineering (EEE)

Effective Fall 2021 Catalog and Beyond

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). There is no way to list all possible overlaps, so please complete this form with a professional advisor. We can help you identify the best course of action.

Graduation Requirements <i>Items with * require C- or better</i>	√
Total Unit Requirements:	
# Total units required for a EEE BS	122 units
# Total major-related units	92 units
# Total units outside of major	30 units
American Institutions:	
➤ US History	<i>Recommend HIST 17A or 17B</i>
➤ US Constitution	<i>Recommend POLS 1</i>
➤ CA State & Local Govt	<i>Recommend POLS 1</i>
Race & Ethnicity in American Society (R+E)	_____
English Composition:	
1. Written Communication*	ENGL 5/5M or 11/11M
2. Second Semester Composition*	ENGL 20/20M
Graduation Writing Assessment Requirement (GWAR):	
3. Writing Placement for Juniors(WPJ) or ENGL 109W	
4. Writing Intensive (WI) Course*	_____
Foreign Language (FL)	EXEMPT
	√

Next Semester Course Option	(Units)
1. _____	()
2. _____	()
3. _____	()
4. _____	()
5. _____	()
6. _____	()
Total Units: _____	
To Do:	

General Education for Engineering <i>Items with * require C- or better</i>				
A. Basic Subjects (6 units)	Suggestion or Requirement	Course	Semester	Grade
A1. Oral Communication*	COMS 4 or COMS 5			
A2. Written Communication*	ENGL 5/5M or ENGL 11/11M			
B. Physical Universe & Its Life Forms (12 units total - 9 units must be lower division)				
B1. Physical Science & B3. Lab*	Met by major: PHYS 11A/CHEM1E			
B2. Life Forms	<i>Recommend: ENVS 10</i>			
B4. Quantitative Reasoning*	Met by major: MATH 30			
B5. Upper Division GE*	Met by major: EEE 192/3A & B			
C. Arts & Humanities (12 units total - 9 units must be lower division)				
C1. Arts				
C2. Humanities				
Second Semester Composition*	ENGL 20/20M			
Upper Division GE*	<i>Recommend: Writing Intensive</i>			
D. The Individual & Society (9 units total - 6 units must be lower division)				
U.S. History	<i>Recommend: HIST 17A or 17B</i>			
U.S. Constit., CA State, & Local Govt	<i>Recommend: POLS 1</i>			
Upper Division GE*	Met by major: ENGR 140 & EEE 192/3B			
E. Understanding Personal Development (3 units)				
3 units of lower division courses*	Met by major: ENGR 1 & EEE 64			
F. Ethnic Studies (3 units)				
Any Area F lower division course				

Electrical & Electronic Engineering Course Check List

Fall 2021-Spring 2022 Catalog

****Disclaimer****

The below list is not to be used to plan out your courses. It is only used as a check list to reflect your progress within your program.

For course planning assistance, please speak with an academic advisor or faculty member to assist you.

All the courses on this list must be passed with a C- or better.

Lower Division Requirements

Code	Title	Pre-requisite(s)	Units	<input checked="" type="checkbox"/>
CHEM 1E	General Chemistry for Engineering	Chem Diagnostic Exam or CHEM 4 & MATH 30 eligibility	4	
EEE/CPE 64	Introduced to Logic Design	ENGR 50 or CSC 15 or CSC 25	4	
ENGR 1	Introduction to Engineering	Engineering Major or Instructor Permission	1	
ENGR 17	Introductory Circuit Analysis	PHYS 11C & MATH 45. One may be taken concurrently	3	
ENGR 50	Computations Methods & Applications	MATH 30 & PHYS 11A (Concurrently)	3	
MATH 30	Calculus I	ALESK PPL: Score of 76 or MATH 29 or AP Credit	4	
MATH 31	Calculus II	MATH 30	4	
MATH 32	Calculus III	MATH 31	4	
MATH 45	Differential Equations	MATH 31	3	
PHYS 11A	Mechanics	MATH 30 & MATH 31 (concurrently)	4	
PHYS 11C	Electricity and Magnetism	PHYS 11A & MATH 31	4	

Upper Division Requirements

EEE 108	Electronics I	EEE 117 & EEE 108L (concurrently)	3	
EEE 108L	Electronics I Laboratory	EEE 117, EEE 117L, & EEE 108 (concurrently)	1	
EEE 117	Network Analysis	ENGR 17, Math 45, PHYS 11C & EEE 117L (concurrently)	3	
EEE 117L	Network Analysis Laboratory	EEE 117 (concurrently)	1	
EEE 130	Electromechanical Conversion	EEE 117 & EEE 161	3	
EEE 161	Applied Electromagnetics	MATH 32, MATH 45, PHYS 11C, ENGR 17 & ENGR 50	4	
EEE 174	Introduction to Microprocessors	Junior status & EEE 64	4	
EEE 180	Signals and Systems	Engr17, Math 45, EEE 117 (concurrently)	3	
EEE 184	Introduction to Feedback Systems	EEE 180	3	
EEE 185	Modern Communication Systems	EEE 180 & ENGR 120 (concurrently)	3	
ENGR 120	Probability and Random Signals	EEE 180 (concurrently)	3	
ENGR 140	Engineering Economics	ENGR 17	2	

Required Design Project Series (Select one of the following two series)

<i>Electrical Power Design Project Series</i>			(21)	
EEE 141	Power System Analysis I	EEE 117 & EEE 161	3	
EEE 142	Power System Analysis II	EEE 130, EEE 141, & EEE 184 (concurrently)	3	
EEE 143	Power System Laboratory	EEE 130, EEE 141, & WPJ	1	
EEE 192A	Electrical Power Design Project I	EEE 141, EEE 142, EEE 143 (concurrently), & WPJ	2	
EEE 192B	Electrical Power Design Project II	EEE 142, 143, 192A	2	
Select 6 units of lecture & 1 unit of lab course from the Power Depth Electives Area. Please see a Faculty Advisor			7	
Select 3 additional units from any on the list of electives. Please see a Faculty Advisor			3	
<i>Product Design Project Series</i>			(21)	
EEE 109	Electronics II	EEE 108 + EEE 108L, EEE 117 + EEE 117L, & WPJ	4	
EEE 193A	Product Design Project I	EEE 108, 109(concurrently), 130, 161, 174, 180, & WPJ	2	
EEE 193B	Product Design Project II	EEE 193A	2	
Select 6 units of lecture & 1 unit of lab from 1 of the Non-Power Depth Req. Areas. Please see a Faculty Advisor			7	
Select 6 additional units course from any on the list of electives. Please see a Faculty Advisor			6	
Total Units: 92				

Any Questions?

Please visit the ECS Student Success Center – Advising, Counseling, and Tutoring Center in Santa Clara 1213

Or the Electrical & Electronic Engineering Department in Riverside 3018

Hub for online student resources including major roadmaps, catalogs, Academic Advising Worksheets, Placement exams, and online resources: <https://www.csus.edu/college/engineering-computer-science/student-success/student-resources.html>