



College Of Engineering

Electrical Engineering Study Plan

139 Total Credit Hours
Updated as of November 2025

Freshman		Sophomore		Junior		Senior	
First Semester 17H		First Semester 17H		First Semester 17H		First Semester 17H	
2H ISLM 1221: Islamic Cultures, Values & Societies		Sophomore Level	1H ASSE 2111: Learning Outcome Asse. I	2H ASSE 3211: Learning Outcome Asse. II	ASSE 2111 & Junior level	EEEN 3391 EEEN 3341	4H EEEN 4440: Comm. Systems
3H COMM 1321: Oral Comm.	← IELTS/APTIS	COMM 1322	3H COMM 2321: Technical & Professional Comm.	3H EEEN 3392: Advanced Applied Mathematics	← GEEN 2310 MATH 2332	EEEN 3432 EEEN 3461	3H EEEN 4393: Electrical Engineering Senior Design I
2H UNIV 1211: Prof. Devt. & Competencies	← PRPC/PRPW/PREE 0061 or equi	MATH 1423 PHYS 1422	4H EEEN 2411: Circuits I	3H EEEN 3361: Electromagnetic Fields & Waves	← EEEN 2411 MATH 1324	EEEN 3422	4H EEEN 4423: Sensors & Instrumentation
4H MATH 1422: Calculus I	← PRPM 0022	MATH 1423	3H MATH 1324: Calculus III	4H EEEN 3421: Electronics I	← EEEN 2411	**Grad year & Dept. Approval. Select from list	3H EEEN 4XXX: Technical Elective I
4H PHYS 1421: Physics for Engineers I	← PRPM 0022	PRPM 0022	4H CHEM 1421: Chemistry for Engineers I	3H EEEN 3331: Digital Systems	← EEEN 2411	EEEN 3422	3H GEEN 4311: Engineering Economy
2H GEEN 1211: Intro. to Engineering	← PRPM 0022	MATH 1423 GEEN 1211	2H GEEN 2211: Engineering Compt.	2H UNIV 2221: Future Skills	← UNIV 1221		
Second Semester 17H		Second Semester 16H		Second Semester 18H		Second Semester 17H	
3H Social Science: Elective	← Select one from List	UNIV 1211	2H UNIV 1221: Generative AI Prompt Engineering Basics	4H EEEN 3422: Electronics II	← EEEN 3421	GEEN 4311 EEEN 4393	3H EEEN 4394: Electrical Engineering Senior Design II
1H PHED 1111: Active Living Lifestyle	← PRPC/PRPW/PREE 0061 or equi	COMM 2321	3H COMM 2322: Writing & Research	4H EEEN 3432: Microcontroller Systems	← EEEN 3331 GEEN 2211	EEEN 3341 EEEN 4423	4H EEEN 4451: Automatic Control Systems
3H COMM 1322: Writing Comm.	← COMM 1321	UNIV 1212	2H UNIV 1213: Leadership & Teamwork	3H EEEN 3341: Signals and Systems	← EEEN 2312 EEEN 3392	**Grad year & Dept. Approval. Select from list	3H EEEN 4XXX: Technical Elective II
2H UNIV 1212: Critical Thinking & Problem Solving	← UNIV 1211	MATH 1324	3H GEEN 2310: Applied Linear Algebra for Engineers	4H EEEN 3461: Electric Machinery	← EEEN 3361 EEEN 2312	EEEN 3422	4H EEEN 4424: Power Electronics
4H MATH 1423: Calculus II	← MATH 1422	MATH 1324	3H MATH 2332: Ordinary Differential Eqs.	3H EEEN 3391: Probability & Random Signal Analysis	← EEEN 2312 EEEN 3392	PHED 1111	1H PHED 1112: Healthy Behaviors & Mgmt.
4H PHYS 1422: Physics for Engineers II	← PHYS 1421 MATH 1422	EEEN 2411	3H EEEN 2312: Circuits II			UNIV 2221	2H UNIV 2222: Systems Thinking for Future Innovations

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Summer Semester 3H	
3H	EEEN 3301: Internship

End of Junior Year or 90 Credit Hours

How to read study plan:

The dotted-lined square indicates a pre-requisite class

Social Science Elective: Choose one - **BSTW 1311** Behavioral Sciences in 3D World, **GEGR 1311** World Regional Geography, **FREN 1311** Introduction to French Language,

FURS 1311 Introduction to Futures Skills, **FUTR 1311** Introduction to Futures Studies, **PSYC 1311** Introduction to Psychology, **SERV 1311** Introduction to Service Learning and Volunteering,

HIST 1311 World Civilizations, **SPAN 1311** Introduction to Spanish Language, **SUST 1311** Introduction to Sustainability, **SYST 1311** Introduction to Systems Thinking

Technical Electives: EEEN 4371 Electric Power Systems - Pre-req.: EEEN 3461 Electric Machinery / **EEEN 4372** Electric Power X'mission & Distrib. - Pre-req.: EEEN 3461 Electric Machi.

EEEN 4342 Digital Communication Systems - Pre-req.: EEEN 4440 Comm. Systems / **EEEN 4343** Wireless Communication Systems - Pre-req.: EEEN 4440 Communication Systems