



College Of Engineering

Electrical Engineering Study Plan

139 Total Credit Hours
Updated as of Fall 2024

Freshman		Sophomore	Junior		Senior
First Semester 17H		First Semester 17H	First Semester 17H		First Semester 17H
2H ALIS 1211: Intro. to Islamic Culture		1H ASSE 2111: Learning Outcome Asse. I	2H ASSE 3211: Learning Outcome Asse. II	ASSE 2111 & Junior level	4H EEEN 4440: Comm. Systems
3H COMM 1311: Written Comm.		3H COMM 2311: Oral Communication	3H EEEN 3392: Advanced Applied Mathematics	GEEN 2310	3H EEEN 4393: Electrical Engineering Senior Design I
2H UNIV 1211: Prof. Devt. & Competencies		4H EEEN 2411: Circuits I	3H EEEN 3361: Electromagnetic Fields & Waves	MATH 2332	4H EEEN 4423: Sensors & Instrumentation
4H MATH 1422: Calculus I	← PRPM 0022	3H MATH 1324: Calculus III	4H EEEN 3421: Electronics I	EEEN 2411	3H EEEN 4XXX: Technical Elective I
4H PHYS 1421: Physics for Engineers I	← PRPM 0022	4H CHEM 1421: Chemistry for Engineers I	3H EEEN 3331: Digital Systems	← EEEN 2411	3H GEEN 4311: Engineering Economy
2H GEEN 1211: Intro. to Engineering	← PRPM 0022	2H GEEN 2211: Engineering Compt.	2H ALIS 2211: Linguistic Communication Skills	← ALIS 1212	

Second Semester 17H		Second Semester 16H	Second Semester 18H		Second Semester 17H
3H Social Science: Elective	← Select one from List	2H ALIS 1212: The Social System in Islam	4H EEEN 3422: Electronics II	← EEEN 3421	3H EEEN 4394: Electrical Engineering Senior Design II
1H PHED 1111: Active Living Lifestyle		3H COMM 2312: Tech'l. & Prof'l. Comm.	4H EEEN 3432: Microcontroller Systems	← EEEN 3331	4H EEEN 4451: Automatic Control Systems
3H COMM 1312: Writing & Research	← COMM 1311	2H UNIV 1213: Leadership & Teamwork	3H EEEN 3341: Signals and Systems	← EEEN 2312	3H EEEN 4XXX: Technical Elective II
2H UNIV 1212: Critical Thinking & Problem Solving	← COMM 1311	3H GEEN 2310: Applied Linear Algebra for Engineers	4H EEEN 3461: Electric Machinery	← EEEN 3392	4H EEEN 4424: Power Electronics
4H MATH 1423: Calculus II	← MATH 1422	3H MATH 2332: Ordinary Differential Eqs.	3H EEEN 3391: Probability & Random Signal Analysis	← EEEN 2312	1H PHED 1112: Healthy Behaviors & Mgmt.
4H PHYS 1422: Physics for Engineers II	← PHYS 1421	3H EEEN 2312: Circuits II		← EEEN 3392	2H ALIS 2212: The Biography of Prophet Mohammad

Summer Semester 3H

3H EEEN 3301: Internship

End of Junior Year or 90 Cr hours & college approval

How to read study plan:

The dotted-lined square indicates a pre-requisite class

Social Science Elective: Choose one - **GEGR 1311** World Regional Geography, **HIST 1311** World Civilizations; **PSYC 1311** Intro. to Psychology, **SUST 1311** Intro. to Sustainability, **FREN 1311** Intro. to French Language, **SPAN 1311** Intro. to Spanish Language, **ECON 1311** Intro. to Macroeconomics, **ECON 1312** Intro. to Microeconomics

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