Associate of Pre-Engineering – Electrical Engineering
Transfer Pathway 2024-2025 Catalog Year
This guide is subject to change and should be used in consultation with an academic advisor.

First Year

Fall Semester		Spring Semester	
ENGR 1010 Engineering Math Techniques	3	ENGL 1010 Intro to Writing (EN)	3
EE 1010 Intro to Electrical Eng. & Lab Methods	1	EE 1270 Introduction to Electrical Circuits I	4
EE 1020 Electrical Engineering Problem w/Matlab	1	CSIS 1410 Object-Oriented Programming	4
CSIS 1400 Fundamentals of Programming	4	MATH 1220 Calculus II	4
CHEM 1210/1215 Principles of Chemistry I/Lab	4/1	PHYS 2210/2215 Physics for Science & Engineering I/lab	4/1
MATH 1210 Calculus I	4		
Total	18	Total	20

Second Year

Fall Semester		Spring Semester	
ENGL 2010 Intermediate Writing (EN)	3	EE 2280 Fundamentals of Engineering Electronics	4
EE 2260 Fundamentals of Electrical Circuits II	4	EE 2700 Fundamentals of Digital System Design	4
PHYS 2220 Physics for Science & Engineering II	4	MATH 2210 Multivariate Calculus	3
MATH 2250 Differential Eq/Linear Algebra	4	ECON 2010 Principles of Microeconomics (SS) - recommended	3
American Institutions (AI)	3	FA 1080 Basic Metal Sculpting (FA) - recommended	3
Total	18	Total	17

*Indicates course specific to Utah Tech transfer

Additional labs and General Education courses can be completed at SLCC prior to transfer.

Bachelor of Science – Electrical Engineering
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Third Year

Fall Semester		Spring Semester	
ECE 2705 Digital Circuits Lab	1	ECE 2285 Microelectronics Lab	1
MATH 3400 Probability & Statistics	3	MECH 2250/2255 Sensors & Actuators Lab	3/1
Life Sciences (LS)	3	MECH 1205 Coding Lab	1
MECH 1000/10005 Intro to Design & Rapid Proto/Lab	3	ECE 2100 Semiconductor Devices	3
PHYS 2225 Physics/Scientists Engineers II Lab	1	General Education Requirement	3
Total	11	Total	12

Fourth Year

Fall Semester		Spring Semester	
ECE 3730/3735 Embedded Systems I/Lab	3/1	ECE 3600/3605 Power Electronics/Lab	3/1
MECH 3200/3205 Systems & Controls/Lab	3/0.5	ECE 3500 Signals and Systems	3
ECE 3300/3305 Electromagnetics & Transmission Lines/Lab	3/1	ECE Tech Elective 1 - 4000+	3
		ECE Tech Elective 2 - 4000+	3
Total	11.5	Total	13

Fifth Year

Fall Semester		Spring Semester	
ECE 4000 Product Design I	3	ECE 4010 Product Design II	3
ECE Tech Elective 3 - 4000+	3	ECE Tech Elective 5 - 4000+	3
ECE Tech Elective 4 - 4000+	3	ECE Tech Elective 6 - 4000+	3
ENGL 3010 Professional Writing and Business Ethics	3		
FE Exam			
Total	12	Total	9