ELECTRICAL ENGINEERING

Requirements

B.S. in Electrical Engineering Required Credits

Code	Title	Hours
ECE 160	Engineering Practice	2
ECE 180	Introduction to Signal Processing	4
ECE 203	DC Circuits	4
ECE 204	AC Circuits	4
ECE 205	Circuits and Systems	4
ECE 230	Introduction to Embedded Systems	4
ECE 233	Introduction to Digital Systems	4
ECE 250	Electronic Device Modeling	4
ECE 300	Continuous-Time Signals & Systems	4
ECE 310	Communication Systems	4
ECE 320	Linear Control Systems	4
ECE 340	Electromagnetic Fields	4
ECE 341	Electromagnetic Waves	4
ECE 351	Analog Electronics	4
ECE 362	Principles of Design	3
ECE 370	Electric Machinery	4
or ECE 371	Conventional & Renewable Energy Systems	
ECE 380	Discrete-Time Signals and Systems	4
ECE 460	Engineering Design I	3
ECE 461	Engineering Design II	4
ECE 462	Engineering Design III	2
CSSE 120	Introduction to Software Development	4
CSSE 220	Object-Oriented Software Development	4
PH 111	Physics I	4
PH 112	Physics II	4
PH 113	Physics III	4
MA 111	Calculus I	5
MA 112	Calculus II	5
MA 113	Calculus III	5
MA 221	Matrix Algebra & Differential Equations I	4
MA 222	Matrix Algebra & Differential Equations II	4
MA 381	Introduction to Probability with Applications to Statistics	4
HUM H190	First-Year Writing Seminar	4
ENGL H290	Technical & Professional Communication	4
RHIT 100	Foundations for Rose-Hulman Success	1
ECE Area Electives		12
HSSA Electives		28
Math/Sci Elective		4
Math Elective		4
Restricted Science Elective		4
Tech Elective		4
Free Electives		8
Total Hours		**194**

The ECE Department will not allow the following second major combinations:

1. Degree in Electrical Engineering and a Second Major in Computer Engineering.
2. Degree in Computer Engineering and a Second Major in Electrical Engineering.

Areas of Concentration:

Computer Engineering Concentration (https://catalog.rose-hulman.edu/catalog/minors-certificates/computer-engineering-concentration/) (ee majors only)