

## Engineering Science: Electrical Engineering AS Degree

### Pathways Common Core:

This program has a waiver to require specific courses in the Common Core.

### A. Required Core: 14 credits

#### English: 6 credits

ENG101 English Composition I (ENA101 or ENC101 depending on placement scores)	3
ENG259 Technical Writing	3

#### Mathematical and Quantitative Reasoning: 4 credits

MAT201 Calculus	4
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#### Life and Physical Sciences: 4 credits

SCP231 General Physics I	4
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### B. Flexible Core: 20 credits

Select six courses from the five flexible core categories. *Note: Student can select only two courses from any one discipline. Only one course can be selected from a category with the exception of Scientific World.*

*World Cultures and Global Issues*

*US Experience in its Diversity*

*Creative Expression*

*Individual and Society*

*Scientific World – Students are required to select MAT202 Calculus II and SCP232 General Physics II.*

*Students are advised to select one Urban Study course to complete college requirement.*

*To complete the degree requirements from the Flexible Core, students are advised to select courses from the recommended course selections listed in the program handbook.*

### Program Core: 28 credits

#### Math Engineering & Computer Science: 15 credits

MAT203 Calculus III	4
MAT204 Differential Equations	4
MAT212 Linear Algebra & Vector Analysis	3
MAT221 Probability	4

#### Electrical Engineering Core: 9 credits

Freshman Seminar	0
Coop-Prep for Engineering Students	0
MAE101 Engineering Lab/Internship I	1
MAE103 Engineering LabII/Internship	2
MAE213 Electrical Circuits	3
MAE219 Thermodynamics	3

#### Natural Sciences: 4 credits

SCC201 Fundamentals of Chemistry I	4
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**Total credits: 62**