Engineering Science: Mechanical 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	3
(ENA101 or ENC101 depending on placement scores)	
ENG259 Technical Writing	3
Mathematical and Quantitative Reasoning: 4 credits MAT201 Calculus	4
Life and Physical Sciences: 4 credits SCC201 Fundamentals of Chemistry I	4

B. Flexible Core: 20 credits

Select <u>six</u> 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 SCC202 Fundamentals of Chemistry 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: 29 credits

Math Engineering & Computer Science: 11 credits	
MAT203 Calculus III	4
MAT204 Differential Equations	4
MAT212 Linear Algebra & Vector Analysis	3
Mechanical Engineering Core: 10 credits	
MAE101 Engineering Lab I/Internship I	1
MAE211 Engineering Mechanics: Statistics	3
MAE213 Electrical Circuits	3
MAE219 Thermodynamics	3
Natural Sciences: 8 credits	
SCP231 General Physics I	4
SCP232 General Physics II	4

Total credits: 63