Clovis Community College
2024 - 2025

Engineering: Mechanical, Aerospace, or Manufacturing Associate in Science Degree

Complete the following program of study (Major #C.3014.AS). Major requirements (42 units minimum).

A student earning this degree will have completed the lower division coursework necessary to transfer into a bachelor's degree program in Mechanical, Aerospace, or Manufacturing Engineering. In addition, a student earning this certificate of achievement will be prepared for engineering internship opportunities.

Name: _____ **Student ID:** _____ **Date:** _____

Course Overview and Selection

Required Core Courses:

Course	Course Description	Units	Completed	In Progress	Planned
ENGR 10	Introduction to Engineering	2			
MATH 5A	Math Analysis I	5			
MATH 5B	Math Analysis II	4			
MATH 6	Math Analysis III	5			
MATH 17	Differential Equations and Linear Algebra	5			
PHYS 4A	Physics for Scientists and Engineers I	4			
PHYS 4B	Physics for Scientists and Engineers II	4			

*Select a minimum of four courses from the following:

Course	Course Description	Units	Completed	In Progress	Planned
ENGR 2	Engineering Graphics	4			
ENGR 4	Engineering Materials	3			
ENGR 6	Electric Circuits Analysis with Lab	4			
ENGR 8	Statics	3			
**ENGR 40 *or* **ENGR 5 *or* **CSCI 40	Programming for Scientists and Engineers *or* Programming and Problem-Solving in MATLAB *or* Programming Concepts and Methodology I	4 *or* 3 *or* 4			
CHEM 1A	General Chemistry	5			
PHYS 4C	Physics for Scientists and Engineers III	4			

Notes:

*Student should carefully plan which of these courses to take based on their specific major and intended transfer institution(s). Some transfer institutions will have minimum requirements for transfer that will necessitate choosing more than 4 courses from this section.

**Student should complete the programming course specifically required by his or her transfer institution of choice. The choices are ENGR 40 Programming for Scientists and Engineers (4 units), ENGR 5 Programming and Problem Solving in MATLAB (3 units), and CSCI 40 Programming Concepts and Methodology I (4 units).

Comments:

Faculty Advisor(s): Bohan, Khaira