Clovis Community College

2017-18

Associate in Science in Engineering Degree

Complete the following program of study (Major C.3010.AS). Major requirements (24-27 units minimum).

Students will be prepared for engineering internship opportunities or entry-level industrial jobs with skills in such areas as computer drafting, solid modeling, engineering design, and problem solving. In addition, students will prepare for transfer into four-year engineering design, learning the fundamentals of physics, chemistry, and engineering.

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

Course Overview and Selection

Required Core:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
PHYS 4A	Physics for Scientists and Engineers	**4**	PHYS 205			
PHYS 4B	Physics for Scientists and Engineers	**4**	PHYS 210			
PHYS 4C	Physics for Scientists and Engineers	**4**	PHYS 215			
ENGR 10	Introduction to Engineering	**2**	N/A			

List A – Select One:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
CHEM 1A	General Chemistry	**4**	CHEM 110			
CHEM 3A	Introductory General Chemistry	**5**	CHEM 110			

List B – Select One:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
ENGR 2	Engineering Graphics	**4**	ENGR 150			
ENGR 40	Programming for Scientists and Engineers	**4**	ENGR 150			

List C – Select One:

Course	Course Description	Units	C - ID	Completed	In Progress	Planned
ENGR 4	Engineering Materials	**3**	ENGR 260			
ENGR 6	Electric Circuit Analysis with Lab	**4**	ENGR 260L			
ENGR 8	Statics	**3**	ENGR 130			

Comments:

Program Learning Outcomes:

1. Apply knowledge of mathematics, science, and engineering fundamentals.
2. Identify, formulate, and solve basic engineering problems.
3. Conduct experiments as well as analyze and interpret the data resulting from these experiments.
4. Make basic design decisions concerning appropriate level engineering problems.
5. Communicate effectively, orally, in writing, and graphically.
6. Understand the impact of engineering solutions in a global and societal context.
7. Use the techniques, skills, and modern engineering tools necessary in engineering practice.

Faculty Advisor(s): Glaves