

Name: _____

ID: _____

Date: _____

Advisor Contact: _____

Major Requirements: 45-56 units

A grade of "C" or better is required in the following courses

ASSOCIATE IN SCIENCE (F.3010.AS)	C-ID	Units	Completed	In Progress	Planned
MAJOR CORE					
Engineering: select a minimum of nine units from the following: 9 units from:					
ENGR 1A, Elementary Plane Surveying 1		4			
ENGR 2, Graphics		4			
ENGR 4, Engineering Materials		3			
ENGR 6, Circuits with Lab		4			
ENGR 8, Statics		3			
ENGR 10, Introduction to Engineering		2			
ENGR 11, Manufacturing Processes		3			
Physics: select two or three courses from the list depending on your engineering major: 8-12 units from:					
PHYS 4A, Physics for Scientists & Engineers		4			
PHYS 4B, Physics for Scientists & Engineers		4			
PHYS 4C, Physics for Scientists & Engineers		4			
Chemistry: select one set of chemistry courses listed: 7-10 units from:					
CHEM 1A, General Chemistry AND		5			
CHEM 1B, General Chemistry & Qualitative Analysis		5			
OR					
CHEM 3A, Introductory General Chemistry AND		4			
CHEM 3B, Introductory Organic & Biological Chemistry		4			
Mathematics: 5A, 5B, and 6 are required. MATH 7 may be required depending on your Engineering major: 13-17 units from:					
MATH 5A, Math Analysis I		5			
MATH 5B, Math Analysis II		5			
MATH 6, Math Analysis III		4			
MATH 7, Introduction to Differential Equations		4			
Programming courses: Two programming courses listed below: 8 units:					
CSCI 40, Programming Concepts & Methodology I		4			
CSCI 41, Programming Concepts & Methodology II		4			

Notes:

1. The following curriculum satisfies the lower division requirements of most colleges and universities that offer degrees in engineering. Depending upon the engineering field selected, students may be required to complete additional prerequisite classes. The student is strongly advised to consult with an advisor and compare his/her planned program with that listed in the catalog of the senior institution to which he/she expects to transfer.
2. Some of the above courses may have prerequisites. See the catalog or schedule of classes.
3. The Associate Degree requires completion of the major (45-56 units) with a "C" or better grade in each course plus the completion of the General Associate Degree requirements – basic competencies, physical education/Dance, and lifetime physical and mental wellness – and General Education requirements for a total of **60 semester units minimum** with a 2.0 or better GPA.