

ENGINEERING FUNDAMENTALS, CERTIFICATE OF ACHIEVEMENT

The model sequence of coursework below is one pathway for students to complete the program. The information below is not an official educational plan. An MPC Counselor can assist you with creating a personalized education plan based on your academic, career, and personal goals. Visit MPC's Counseling website for more information about Counseling and up-to-date program requirements.

Year 1

Fall		Units
ENGR 1A	Introduction to Engineering	3
MATH 20A	Calculus with Analytic Geometry I	4
Select one course from the following:		1-5
CHEM 1A	General Chemistry I	
or CSIS 10A	or Programming Methods I: Java	
or CSIS 10C	or Programming Methods I.5: C and C++	
or ENGR 1B	or Design and Prototyping	
or ENGR 2	or Engineering Design Graphics	
or ENGR 17	or Programming and Problem-Solving in MATLAB	
or COOP 99	or Career-Focused Work Experience	
Units		8-12

Spring		
MATH 20B	Calculus with Analytic Geometry II	4
PHYS 3A	Science and Engineering Physics I	4
Select one course from the following:		2-5
CHEM 1A	General Chemistry I	
or CSIS 10A	or Programming Methods I: Java	
or CSIS 10C	or Programming Methods I.5: C and C++	
or ENGR 1B	or Design and Prototyping	
or ENGR 2	or Engineering Design Graphics	
or ENGR 17	or Programming and Problem-Solving in MATLAB	
or COOP 99	or Career-Focused Work Experience	
Units		10-13
Total Units		18-25