

FCC Curriculum Pathway

The Curriculum Pathway provides full-time students with a suggested guide for completing an Associate degree in two years (four semesters). Students who choose to take less than 15 credits per semester or who require Developmental English and/or Math will need additional semesters to complete their degrees. Taking classes in the Summer and/or January terms allow students to catch up and stay on target. *

****It is strongly recommended that all Engineering students meet with an Advisor each semester to carefully select and sequence courses based on their intended Engineering specialization and transfer university. Refer to the Engineering Transfer Guide on the STEM website.***

Major: STEM – Engineering Pathway

Catalog Year: 2016-2017

Course Number	Course	Credit	Complete
First Year – First Semester			
EN 101	English Composition	General Education CORE	3
MA 210	Calculus I	General Education CORE	4
EG 100	Introductory Engineering Science (or other STEM elective)	STEM Elective	3
CH 101	General Chemistry	General Education CORE	4
	PE/Health		1/3
Total Credits:			15/17
First Year – Second Semester			
PY 203	Introductory Physics I (recommended)	General Education CORE	4
MA 211	Calculus II	General Education STEM Elective	4
MA 214	Introduction to MATLAB (recommended)	STEM Elective	1
	Communication	General Education CORE	3
	Social & Behavioral Science	General Education CORE	3
Total Credits:			15
Second Year – First Semester			
PY 204	Introductory Physics II (recommended)	STEM Elective	4
MA 212	Calculus III (recommended)	STEM Elective	4
EG 110	Engineering Statistics (or other STEM elective)	STEM Elective	3/4
	Social & Behavioral Science	General Education CORE	3
Total Credits:			14/15
Second Year – Second Semester			
EG 210	Mechanics of Materials (or other STEM elective)	STEM Elective	3/4
EG 211	Engineering Dynamics (or other STEM elective)	STEM Elective	3/4
MA 213	Differential Equations	STEM Elective	3
	Humanities	General Education CORE	3
	Arts	General Education CORE	3
	Select one course to meet minimum of 25 credits of STEM Electives for graduation		1-4
Total Credits:			16/17
Total Credits:			60

Students must complete their credit English and Mathematics within the first 24 credits.

General Education Electives can be taken in the semester that works best for the student's schedule.

Students are strongly recommended to consult an FCC advisor and to use ARTSYS, the Maryland Articulation System, www.artsys.usmd.edu to select elective courses needed for transfer based on their intended major at their four-year college/university.

Developmental courses must be completed prior to enrolling into college-level courses in the major. See an advisor for further information, if needed.

- _____ Reading: EN51; EN52
- _____ Writing: EN50; EN61
- _____ Math: MA80, MA81, MA82 or MA85
- _____ English as a Second Language:
ESL 99 & 95; or ESL 72 & 73