

Engineering Area of Concentration, A.S. STEM

Frederick Community College Suggested Transfer Pathway



Catalog Year 2018-2019

	FCC Course	Credits	UMD College Park Engineering	UMBC	Frostburg B.S. Engineering
Semester 1	1 EN 101 English Composition	3	EN 101*	EN 101	EN 101
	2 MA 210 Calculus I	4	MA 210	MA 210*	MA 210
	3 EG 100 Introductory Engineering Science	3	EG 100	EG 100 (Does not transfer, but is required for FCC)	EG 100
	4 Social & Behavioral Sciences Gen Ed	3	Choose	Choose	AN 101, GG 102, HI 217, SO 210, or SO 212
	5 Arts Gen Ed	3	Choose	Choose	Choose
Semester 2	6 CH 101 General Chemistry	4	CH 101	CH 101*	CH 101
	7 Social & Behavioral Sciences Gen Ed in a different discipline from the first	3	Choose	Choose	Choose
	8 MA 211 Calculus II	4	MA 211*	MA 211**	MA 211
	9 MA 214 Introduction to Matlab	1	MA 214	MA 214	MA 214 (Does not transfer, but is required for FCC)
	10 Communications Gen Ed	3	CMSP Gen Ed	Choose	Choose
Semester 3	11 MA 213 Differential Equations	3	MA 213	MA 213*	MA 213
	12 PY 203 Introductory Physics I	4	PY 203	PY 203*	PY 203
	13 Choose a STEM elective in consultation with an advisor	4	CH 102*	CH 102*, EG 110*, MA 212*	CH 102, EG 110, or MA 212
	14 Choose a free elective in consultation with an advisor	4	Ask Advisor	Ask Advisor	Choose
Semester 4	15 Humanities Gen Ed	3	Choose	World Language 101, 102 or 201 or ASLS 102, 103, or 202	Choose
	16 Choose a STEM elective in consultation with an advisor	4	PY 204*	CH 102*, EG 210*, EG 211*, or PY 204*	CH 102, EG 210, EG 211, or PY 204
	17 PE/Health Requirement	1/3	Choose	Choose	Choose
	18 General Education Elective	3	Ask Advisor	World Language 10, or 201 or ASLS 103 or 202	See ARTSYS Go to "Keyword Search – Frostburg State University GED – FSU Colloquia Area"
	19 Choose a free elective in consultation with an advisor	3	Ask Advisor	Ask Advisor	Choose

Important Notes: The schools represented here are only a small sample of transfer options. Information is subject to change, and this suggested pathway is a guide, not a contract. Students should use this in consultation with an FCC advisor, the FCC catalog, [ARTSYS](#) (the state-wide online transfer system), and an advisor at the transfer institution. See the "Pathway Notes" section for more detailed information.

Full-time student: Follow the green semester blocks in order. **Part-time student:** Follow the blue course sequence at your own pace.

Pathway Notes

* must earn a grade of “C” or higher in this course

Transfer Institution Information

University of Maryland College Park is a limited enrollment program and requires a GPA of 2.7 or better and a grade of “C” or better in gateway courses (MA 211, PY 204, and CH 102). Only one “gateway” course may be repeated to earn the required grade and that course may be repeated only once (withdraws and audits included). Also, students may only apply once to a Limited Enrollment Program; www.lep.umd.edu. Undergraduate majors include Aerospace Engineering, Bioengineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Fire Protection Engineering, Materials Science and Engineering, and Mechanical Engineering. Program requirements vary by area; please meet with an advisor for more information.

UMBC Engineering Programs may be limited admission. Engineering majors include Biotechnology & Bioengineering, Chemical Engineering, Computer Engineering, Computer Science, Entrepreneurship & Innovation, Environmental Engineering & Sustainability, and Mechanical Engineering. Program requirements vary by area; please meet with an advisor for more information.

Advising

Students should meet with an advisor each semester to carefully select and sequence courses based on their specific academic goals and interests.

The Counseling & Advising Office offers general advice: emailadvising@frederick.edu • 301.846.2471 • frederick.edu/advising

Program managers offer specific academic area advice: frederick.edu/programs

Completing the Pathway

Students who take fewer than 15 credits each semester or who require developmental English or math coursework will need additional semesters to complete their degrees. Summer and January term classes may help students to make faster progress.

General Education CORE courses can often be taken in any semester. One course must be designated as a Cultural Competence course. A minimum of nine credits must be taken at the 200 level. Refer to the college catalog (frederick.edu/class-schedules) for course details and the list of General Education and Cultural Competence classes.

Reverse Transfer

FCC students who transfer to another school may transfer credits *back to FCC* from that school to fulfill FCC associate degree requirements. Visit frederick.edu/credit-admissions/reverse-transfer or contact an advisor for more information.