



Engineering at Frederick Community College

You can begin most every engineering major at Frederick Community College by obtaining an Associate of Science STEM degree. To learn more about the different engineering majors, please visit the Try Engineering web site at <http://tryengineering.org/>.

Below are course grids showing STEM courses available at FCC and the equivalent courses at the University of Maryland, College Park (UMD) and University of Maryland, Baltimore County (UMBC). An (x) indicates a required course for the major. See the department web sites for the major for specific details about degree requirements. Also visit the ARTSYS web site, <http://artsys.usmd.edu/>, for more information about course equivalencies.

University of Maryland, College Park									
FCC Course	Aerospace Engineering	Bioengineering	Chemical Engineering	Civil Engineering	Computer Engineering	Electrical Engineering	Materials Science	Mechanical Engineering	UMD Course
EG 100	x	x	x	x	x	x	x	x	ENES 100
EG 110	x	x		x				x	ENES 102
EG 210	x	x		x				x	ENES 220
EG 211				x				x	ENES 221
EG 214	x								ENES 232
MA 210	x	x	x	x	x	x	x	x	MATH 140
MA 211	x	x	x	x	x	x	x	x	MATH 141
MA 212	x	x	x	x		x	x	x	MATH 241
MA 213	x	x	x	x	x	x	x	x	MATH 246
MA 214									
MA 218									MATH 240
PY 203	x	x	x	x	x	x	x	x	PHYS 161
PY 204	x	x	x	x	x	x	x	x	PHYS 260/261
PY 205	x		x			x	x	x	PHYS 270/271
CH 101	x	x	x	x	x	x	x	x	CHEM 131/132
CH 102									CHEM 271
CH 201		x	x				x		CHEM 231/232
CH 202			x						CHEM 241/242

University of Maryland, Baltimore County				
FCC Course	Chemical Engineering	Computer Engineering	Mechanical Engineering	UMBC Course
No Equivalent	x	x	x	ENES 101
EG 100				Not Transferable
EG 110	x		x	ENES 110
EG 210			x	ENME 220
EG 211			x	ENME 221
EG 214			x	ENME 217
MA 210	x	x	x	MATH 151
MA 211	x	x	x	MATH 152
MA 212	x	x	x	MATH 251
MA 213	x	x	x	MATH 225
MA 214				
MA 218		x		MATH 221
PY 203	x	x	x	PHYS 121
PY 204	x	x	x	PHYS 122
PY 205				PHYS 224
CH 101	x		x	CHEM 101
CH 102	x		x	CHEM 102
CH 201	x			CHEM 351
CH 202	x			CHEM 352
BI 101				
BI 102				BIOL 142
BI 203				BIOL 275
BI 240				BIOL 123
CIS 201		x		CMSC 201
CIS 202		x		CMSC 202