

## Recommended Sequence of Courses for the 8-Semester Program (139 Credits)

*Note:* For the 8 complementary courses, choose 5 technical complementary courses (2 of which are Design Technical Complementary Courses), 2 Humanities/Social Sciences, and 1 Impact of Technology courses. The later 3 courses can be taken in summer to reduce course load during the year. \* CIVE 432 may be taken in Semester 8 after completing a minimum of 2 technical complementary courses.

SEMESTER 1 (15 cr)			SEMESTER 2 (18 cr)		
CHEM 110	General Chemistry 1	4 cr	CHEM 120	General Chemistry 2	4 cr
MATH 140	Calculus 1	3	MATH 141	Calculus 2	4
MATH 133	Vectors, Matrices & Geometry	3	PHYS 142	Electromagnetism & Optics	4
PHYS 131	Mechanics & Waves	4	xxxx-xxx	Humanities/Social Sciences #1	3
FACC 100	Intro Engineering Profession	1	xxxx-xxx	Impact of Technology	3
SEMESTER 3 (18 cr)			SEMESTER 4 (17 cr)		
EPSC 221	General Geology	3 cr	MATH 263	Ordinary Differential Equations and Linear Algebra	3 cr
MATH 262	Intermediate Calculus	3	CIVE 202	Construction Materials	4
CIVE 205	Statics	3	CIVE 206	Dynamics	3
CIVE 290	Thermodynamics & Heat Transfer	3	CIVE 207	Solid Mechanics	4
WCOM 206	Communication in Engineering	3	COMP 208	Computers in Engineering	3
MECH 289	Design Graphics	3	FACC 250	Responsibilities of the Professional Engineer	0
			SUMMER SESSION (2 cr)		
			CIVE 210C	Surveying	2 cr
SEMESTER 5 (18 cr)			SEMESTER 6 (17 cr)		
CIVE 208	Civil Engineering Systems Analysis	3 cr	CIVE 225	Environmental Engineering	4 cr
CIVE 311	Geotechnical Mechanics	4	CIVE 302	Probabilistic Systems	3
CIVE 317	Structural Engineering I	3	CIVE 327	Fluid Mechanics & Hydraulics	4
FACC 300	Engineering Economy	3	CIVE 318	Structural Engineering II	3
MATH 264	Advanced Calculus	3	CIVE 319	Transportation Engineering	3
MECH 261	Measurement Lab	2			
SEMESTER 7 (17 cr)			SEMESTER 8 (17 cr)		
CIVE 320	Numerical Methods	4 cr	CIVE 324	Sustainable Project Management	3 cr
CIVE 323	Hydrology & Water Resources	3	CIVE 418	Design Project	4
*CIVE 432	Technical Paper	1	xxxx-xxx	Complementary #3	3
xxxx-xxx	Humanities/Social Sciences #2	3	xxxx-xxx	Complementary#4	3
xxxx-xxx	Complementary #1	3	xxxx-xxx	Complementary#5	3
xxxx-xxx	Complementary #2	3	FACC 400	Engineering Professional Practice	1