

Construction Engineering and Management 5 Year Plan of Study for ROTC Students

First Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CHEM 1035	General Chemistry <i>Co: MATH 1025 or MATH 1225</i>	3	ENGE 1216	Foundations of Engineering (C-) <i>Pre: ENGE 1215 (C-)</i>	2
CHEM 1045	General Chemistry Lab <i>Co: CHEM 1035</i>	1	ENGL 1106	First-Year Writing <i>Pre: ENGL 1105</i>	3
ENGE 1215	Foundations of Engineering (C-)	2	MATH 1226	Calculus of a Single Variable <i>Pre: MATH 1225 (C-)</i>	4
MATH 1225	Calculus of a Single Variable (C-) <i>Pre: Math Ready</i>	4	PHYS 2305	Foundations of Physics <i>Pre: (MATH 1205 or MATH 1205H or MATH 1225) or (MATH 1206 or MATH 1206H or MATH 1226); Co: 2325 or (MATH 1206 or MATH 1206H or MATH 1226)</i>	4
ENGL 1105	First-Year Writing ROTC	3 Varies		ROTC	Varies
Total Credit Hours		13 - 18	Total Credit Hours		13 - 18
Second Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CEM 2104	Introduction to CEM (C-)	3	MATH 2114	Intro to Linear Algebra <i>Pre: MATH 1225 (B) or MATH 1226</i>	3
PHYS 2306	Foundations of Physics <i>Pre: (MATH 1206 or MATH 1206H or MATH 1226), PHYS 2305</i>	4	CEE 2814	CEE Measurements (C-) <i>Pre: (ENGE 1216 (C-) or ENGE 1114 or ENGE 1414 or BC 1224), (MATH 1226 (C-) or MATH 1206 or MATH 1206H)</i>	4
MATH 2204	Multivariable Calculus <i>Pre: MATH 1226</i>	3	ESM 2104	Statics <i>Pre: MATH 1226; Co: MATH 2204 or MATH 2204H or MATH 2406H</i>	3
GEOS 2104	Elements of Geology (C-)	3	BC 2114	IT in Design & Construction <i>Pre: BC 1224 or CEM 2104</i>	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		13 - 17	Total Credit Hours		13 - 17
Third Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
CEM 3024	Estimating and Scheduling <i>Pre: CEM 2104 (C-)</i>	3 [F]	ECON 2006	Principles of Economics <i>Pre: ECON 2005; Pathways 3</i>	3
ESM 2204	Mech. of Deformable Bodies <i>Pre: (ESM 2104 or ESM 2114), (MATH 2224 or MATH 2224H or MATH 2204 or MATH 2204H)</i>	3	CEE 3404	Theory of Structures (C-) <i>Pre: ESM 2204 (C-)</i>	3
MATH 2214	Differential Equations <i>Pre: MATH 1226, (MATH 2114 or MATH 2114H or MATH 1114 or MATH 2405H)</i>	3	CEE 3684	CEE Materials (C-) <i>Pre: CHEM 1035 (C-), CHEM 1045 (C-), ESM 2204 (C-), CEE 2814 (C-), GEOS 2104 (C-)</i>	4
ECON 2005	Principles of Economics <i>Pathways 3</i>	3		Pathways 6a	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		12 - 18	Total Credit Hours		13 - 19
Fourth Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
BC 3114	Building Systems Tech <i>Pre: (CEM 2104 or CNST 2104 or BC 2024), PHYS 2305</i>	3	BC 3064	Integrated Construction II <i>Pre: (CEM 2104, BC 3114, PHYS 2305) or (BC 2064, BC 3114, PHYS 2305)</i>	3
CEE 3424	Reinfor. Concrete Structures <i>Pre: (CEM 3404 (C-), CEE 3684 (C-)) or BC 2044</i>	3	CEE 3434	Design of Steel Structures <i>Pre: (CEM 3404 (C-), CEE 3684 (C-)) or BC 2044 (C-)</i>	4
CEE 3514	Intro to Geotechnical Engr <i>Pre: ESM 2204 (C-), GEOG 2104 (C-)</i>	3	CEE 4074	Construct. Means and Methods <i>Pre: CEM 2104 (C-) or CEE 3014 (C-)</i>	3 [S]
CEM 3164	Construct. Health and Safety <i>Pre: CEM 2104</i>	3 [F]	CEM 3084	Construction Economy <i>Pre: CEM 2104 or BC 2024</i>	3
	ROTC	Varies		ROTC	Varies
Total Credit Hours		12 - 18	Total Credit Hours		13 - 19
Fifth Year					
FALL			SPRING		
Course	Course Title	Credits	Course	Course Title	Credits
BC 4064	Integrated Construction II <i>Pre: BC 3064</i>	3	CEM 4024	Construct. Law & Contr. Admin. <i>Sr. Standing</i>	3 [S]
CEM 4445	CEM Capstone I <i>Pre: BC 3064, Senior Standing; Co: BC 4064</i>	3 [F]	CEM 4446	CEM Capstone II <i>Pre: CEM 3084, CEM 4445</i>	3 [S]
	Engineering Elective	3	CEM 3134	Temporary Structures <i>BC 3134</i> <i>Pre: CEE 3684 or (BC 2044, BC 2024)</i>	3
	Pathways 2/7	3		Business Elective	3
	ROTC	Varies		Pathways 2	3
				ROTC	Varies
Total Credit Hours		12 - 14	Total Credit Hours		15 - 17