

Baccalaureate Construction Engineering & Honors Curriculum Fall 2018

Hours	FIRST SEMESTER	Hours	SECOND SEMESTER
<u>Freshman Year</u>			
4	Chem 105 Principles of Chem I (Pre Req)1 yr hs chem. or Chem 101; Math 106 or c//)	5	Phys 205 Science & Eng Honors Phys (Math 171) ^{1, 3}
3	Engl 298 Writing and Research Honors	3	Honors 280 Arts & Humanities
4	ForL 203	4	Math 172 Calculus II or Math 182 (Math 171) ^{1, 3}
4	Math 171 Calculus I (Math 106/108) ¹	3	EconS 198 Economics Honors ²
2	CstM 102 Intro to CM	3	Blaw 210 Law & Legal Envir.
17	Total Hours	18	Total Hours
<u>Sophomore Year</u>			
3	CE 211 Statics (Math 172/182 c//; Phys 201/205 c//) ¹	3	ME 212 Dynamics (CE 211)
4	ForL 204	3	CE 215 Mechanics of Material (CE 211)
3	Honors 370 Global Issues in Social Sciences	3	Acctg 230 Intro Accounting
2	CstM 254 Construction Graphics	3	Stat 360 or 370 Statistics (Math 172)
4	Biol 102 OR MBioS 101	1	ME 220 Materials Lab (CE 215 c//)
16	Total Hours	3	CE 463 Engineering Administration ⁴
	CERTIFY ¹	16	Total Hours
<u>Junior Year</u>			
Writing Portfolio: must complete after 60 credits Apply for Graduation after 90 credits			
2	ConE 252 Const. Admin (CstM 254; Math 172) ⁴	2	CE 303 CE Computer Applications ⁴
2	CE 302 Intro to Surveying (Math 171) ⁴	3	CE 414 Structural Loads (CE 330; Stat 360/370c//) ⁴
3	CE 315 Fluid Mechanics (ME 212) ⁴	3	CstM 356 Earthwork & Equipment ⁴
3	Com 400 Technical Communication	4	CE 317 Geotech Engr (CE 215; CE 315c//) [M] ⁴
3	CE 330 Structural Engineering (CE 215) ⁴	3	ConE 361 H/C Estimating 2 (ConE 360) ⁴
3	ConE 360 H/C Estimating 1 (ConE 252 c//) ⁴	2	ConE 351 Delivery Systems (ConE 252) ⁴
16	Total Hours	17	Total Hours
<u>Senior Year</u>			
<u>All students required to take Fundamentals of Engineering Exam and fulfill the Experiential Requirement prior to graduation.</u>			
3	Professional Elective	3	CE 465 Integrated Des or ENGR 421/31 IDEX* [M] ^{4, 5}
3	Honors 380 Global Issues in the Arts and Humanities	3	Professional Elective
3	CE 433 Reinforced Concrete Des (CE 414) ⁴	3	Honors 390 Global Issues in the Sciences
1	CE 466 FE Exam Review ⁴	3	CstM 473 Human Factors/Mgmt. ⁴
1	CE 480 Ethics & Professionalism [M] ⁴	3	CE 400 CE Materials (ME 220; Stat 360/370c//) ⁴
3	CstM 460 Cost Control ⁴	3	CstM 368 Safety & Health
3	CstM 462 Plan & Scheduling ⁴	18	Total Hours
17	Total Hours		

See the department for senior year options.

¹These classes must be completed prior to certification.

²EconS 198 is an approved substitution for Honors 270 for engineering majors.

³Engineering students who take Phys 205 or Math 182 do not take Honors 290.

⁴Certified major in ConE, or instructor permission required.

⁵CE 465 or ENGR 421/31 will fulfill the Honors Thesis Option and the Research Seminar; application required for ENGR 421 or ENGR 431.