

Baccalaureate Construction Engineering & Honors Curriculum Fall 2021

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//) 3 Engl 298 Writing and Research Honors 4 ForL 203 4 Math 171 Calculus I (Math 106/108) ¹ 3 Econs 198 Economincs Honors ² 18 Total Hours ADMIT TO MAJOR¹	4/5 Phys 205 Science & Eng Honors Phys (Math 171) ^{1,3} OR Phys 201 Classical Phys (Math 171) ¹ 3 Honors 280 Arts & Humanities 4 Math 172 Calculus II or Math 182 (Math 171) ^{1, 3} 2 CstM 102 Intro to CM 4 SOE 101 or 102 Geology 17/18 Total Hours		
<u>Sophomore Year</u>			
3 CE 211 Statics (Math 172/182 c//; Phys 201/205 c//) ¹ 4 ForL 204 3 Honors 370 Global Issues in Social Sciences 2 CstM 254 Construction Graphics 3 Biological Sciences 3 Honors 380 Arts and Humanites 18 Total Hours ADMIT TO MAJOR¹	3 ME 212 Dynamics (CE 211) 3 CE 215 Mechanics of Material (CE 211) 4 Math/Science Electives 3 Stat 360 or 370 Statistics (Math 172) 1 ME 220 Materials Lab (CE 215 c//) 3 CE 463 Engineering Administration ⁴ 17 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 254c //; Junior standing) ⁴ 2 CE 302 Intro to Surveying (Math 171) ⁴ 3 CE 315 Fluid Mechanics (ME 212) ⁴ 3 Com 400 Technical Communication 3 CE 330 Structural Engineering (CE 215) ⁴ 3 ConE 360 H/C Estimating 1 (ConE 252 c//) ⁴ 16 Total Hours	2 CE 203 CE Computer Applications ⁴ 3 CE 414 Structural Design Loads (CE 330; Stat 360/370c//) ⁴ 3 CstM 356 Earthwork & Equipment ⁴ 4 CE 317 Geotech Engr (CE 215; CE 315c//) [M] ⁴ 3 ConE 361 H/C Estimating 2 (ConE 360) ⁴ 2 ConE 351 Delivery Systems (ConE 252) ⁴ 17 Total Hours		
<u>Senior Year</u>			
<u>All students required to fulfill the Experiential Requirement prior to graduation. Recommended to take (FE) Fundamentals of Engineering Exam.</u>			
3 Professional Elective ⁴ 3 CE 400 CE Materials (ME 220; Stat 360/370c//) ⁴ 3 CE 433 Reinforced Concrete Des (CE 414) ⁴ 3 Honors 390 Global Issues in the Sciences 3 CstM 460 Construction Cost Accounting ⁴ 3 CstM 462 Plan & Scheduling ⁴ 18 Total Hours	4 CE 465 Integrated Des [M] ^{4,5} 3 Professional Elective ⁴ 1 CE 480 Ethics & Professionalism [M] ⁴ 3 CstM 473 Human Productivity ⁴ 3 CstM 484 Temporary Structures ⁴ 3 CstM 368 Safety & Health ⁴ 17 Total Hours		

See the department for senior year options.

¹ Classes that must be completed prior to admission to major (applies to transfer and change of major students as well as students with math placement below Math 171). Incoming first-year student ready to take Math 171 or a higher math course are directly admitted to the major.

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.

⁴Courses requiring admission to the major in Construction Engineering

⁵CE 465 will fulfill the Honors Thesis Option and the Research Seminar.