

Construction Engineering COURSE MATRIX 2017-2018 General Catalog		Heavy/Highway Emphasis 125 Credits				SAMPLE										
1 Fall	1 Spring	2 Fall	2 Spring	3 Fall	3 Spring	4 Fall	4 Spring									
*Engr 101 (R) Engineering Orientation	CE 170 (2) Graphics for Civil Engineers	ConE 222 (3) Contr Org & Mgmt of Constr	ConE 241 (3) Constr Mat & Meth	ConE 322 <sup>5</sup> (3) Constr Equip & Hvy Constr Meth	ConE 340 <sup>5</sup> (3) Concr & Steel Constr	ConE 422 <sup>5</sup> (3) Constr Estimating & Cost Engr	ConE 487 (3) Constr Engr Design I									
*CE 160 (3) Eng Prob w/Comp Lab	*Math 166 (4) Calculus II	CE 111 (3) Fund of Surveying I	ConE 251 (1) M/E Materials and Methods	IE 305 (3) Engineering Economic Analysis	Engr Topics Elective <sup>4</sup> (3)	ConE 441 <sup>5</sup> (3) Constr Plng, Sch & Cont	ConE 488 (3) Constr Engr Design II									
*Math 165 (4) Calculus I	*Phys 221 (5) Intro to Classical Physics I	Phys 222 (5) Intro to Classical Physics II	Math 267 <sup>2</sup> (4) Diff Eq w/Laplace OR Math 266 (3) Differential Eq	EM 378 <sup>5</sup> (3) Mech of Fluids	CE 360 <sup>5</sup> (3) Soils Engr	CE 382 (3) Dsgn of PtlnD Cem Concr	Bus Comm <sup>1</sup> (3) Elective Engr 302/309/314									
*Chem 167 (4) Gen Chem for Eng Students	*Engr 250 <sup>1</sup> (3) WOVE Communication	EM 274 <sup>5</sup> (3) Statics of Engr	EM 324 <sup>5</sup> (3) Mech of Matls	Statistics (3) 231 Prob & Stat for Engrs OR 305 Engr Statistics	CE 332 <sup>5</sup> (3) Struc Analysis I	CE 333 (3) Struc Dsgn Stl I	CE 334 (3) Reinf Concr Dsgn I									
*Engr 150 <sup>1</sup> (3) Critical Thinking & Communication	ConE 122 (1) Learning Community	Math or Stat Elective <sup>3</sup> (3)	SSH Elective (3) Psych 101/230/280 Soc 134	Engr Topics Elective <sup>4</sup> (3)	EM 327 (1) Mech of Matls Lab	SSH Elective (3) International Perspective	SSH Elective (3) US Diversity									
ConE 121 (1) Learning Community	*Lib 160 (1) Libr Instr		SSH Elective (3) Econ 101 or 102		Law Elective (3) ConE 380 or Acct 215											
(15)	(16)	(17)	(16/17)	(15)	(16)	(15)	(15)									
<b>Transfer Grade Requirements:</b> The department requires a grade of C or better for <u>any</u> transfer credit course that is applied to the degree program.  <b>1) Minimum grade ENGL courses: C in each</b>  <b>*Denotes Basic Program Course</b>  <hr/> <b>2) To allow greater flexibility for changing between emphases, students are encouraged to take Math 267.</b>		<b>3) Math or Statistics Elective</b>  Math 265 (4) Math 207 (3) Stat 401 (4)	<b>4) Engr Topics Electives</b>  6 Credits Required For Heavy Emphasis Student must complete at least 3 credits from List A  <u>List A</u> ConE 381A (1) (F only) ConE 481A (1) (F only) CE 505 (3) CE 594O (1-3) <table style="display: inline-table; vertical-align: top; margin-left: 20px;"> <tr><td><u>List B</u></td></tr> <tr><td>CE 501 (3)</td></tr> <tr><td>CE 502 (3)</td></tr> <tr><td>CE 503 (3)</td></tr> <tr><td>CE 355 (3)</td></tr> <tr><td>CE 372 (3)</td></tr> <tr><td>CE 417 (3) (S only)</td></tr> <tr><td>CE 460 (3)</td></tr> <tr><td>Any CE 500-level course (except CE 594A or F).</td></tr> </table>		<u>List B</u>	CE 501 (3)	CE 502 (3)	CE 503 (3)	CE 355 (3)	CE 372 (3)	CE 417 (3) (S only)	CE 460 (3)	Any CE 500-level course (except CE 594A or F).	<b>5) Heavy Emphasis Core Courses</b>  Building Core Classes Require a MINIMUM Cumulative 2.00 GPA  EM 274 (3) EM 324 (3) ConE 322 (3) EM 378 (3) CE 360 (3) ConE 422 (3) ConE 441 (3) CE 332 (3) ConE 340 (3)	<b>Total credits required, undergraduate program:</b> <b>Heavy Emphasis 125</b>	
<u>List B</u>																
CE 501 (3)																
CE 502 (3)																
CE 503 (3)																
CE 355 (3)																
CE 372 (3)																
CE 417 (3) (S only)																
CE 460 (3)																
Any CE 500-level course (except CE 594A or F).																