

**Construction Engineering**  
**COURSE MATRIX 2015-2016 General Catalog**

**Building 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 353 (3) Elec Sys in Bldgs	ConE 340 <sup>5</sup> (3) Concr & Steel Constr	ConE 422 <sup>5</sup> (3) Constr Estimating & Cost Engr	ConE 487 (3) Constr Engrg 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	Law Elective (3) ConE 380 or Acct 215	ConE 322 <sup>5</sup> (3) Constr Equip & Hvy Constr Meth	ConE 441 <sup>5</sup> (3) Constr Plng, Sch & Cont	ConE 488 (3) Constr Engrg Design II
*Math 165 (4) Calculus I	*Phys 221 (5) Intro to Classical Physics I	Math or Stat Elective <sup>3</sup> (3)	Math 267 <sup>2</sup> (4) Diff Eq w/Laplace OR Math 266 (3) Differential Eqn	EM 378 <sup>5</sup> (3) Mech of Fluids	CE 332 <sup>5</sup> (3) Struc Analysis I	CE 383 (1) Dsgn of Ptlnl Cem Concr	Bus Comm Elective <sup>1</sup> (3) Engr 302/309/314
*Chem 167 (4) Gen Chem for Eng Students	ConE 122 (1) Learning Community	EM 274 <sup>5</sup> (3) Statics of Engr	EM 324 <sup>5</sup> (3) Mech of Matls	ConE 352 (3) Mech Sys in Bldgs	CE 360 <sup>5</sup> (3) Soils Engrg	CE 333 (3) Struc Dsgn Stl I	CE 334 (3) Reinf Concr Dsgn I
*Engr 150 <sup>1</sup> (3) Critical Thinking & Communication	*Engr 250 <sup>1</sup> (3) WOVE Communication	SSH Elective Econ 101 or 102 (3)	Phys 222 (5) Intro to Classical Physics II	IE 305 (3) Engineering Economic Analysis	EM 327 (1) Mech of Matls Lab	SSH Elective International Perspective (3)	SSH Elective US Diversity (3)
ConE 121 (1) Learning Community	*Lib 160 (1) Libr Instr			Stat 105 (3) Statistics for Engineers	SSH Elective (3) Psych 101/230/280 Soc 134	Engrg Topics Elective <sup>4</sup> (2)	
(15)	(16)	(15)	(15/16)	(18)	(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 in changing between emphases and to meet ABET requirements, 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>  2 Credits Required For Building Emphasis  CE 326 (3)                      ConE 490 (1-3) CE 372 (4)                      EM 345 (3) CE 446 (3)                      EE 314 (3) CE 460 (3)                      MatE 273 (3) Geol 201 (3) Fall only ConE 381A (1) & ConE 481A (1) Fall only Any CE 500-level course (except CE 594A or F).  CE 382 (3cr) may be substituted for CE 383 with the remaining 2 credits to count for Engineering Topic Elective.		<b>5) Building 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) 27  <b>Total credits required, undergraduate program:</b> <b>Building Emphasis 125</b>		