

Construction Engineering
COURSE MATRIX 2019-2020 General Catalog

Building Emphasis
127 Credits

SAMPLE

1 Fall	1 Spring	2 Fall	2 Spring	3 Fall	3 Spring	4 Fall	4 Spring
ConE 121 (1) Learning Community	ConE 122 (1) Learning Community	ConE 222 (3) Contr Org & Mgmt of Constr	ConE 241 (3) Constr Mat & Meth	ConE 352 (3) Mech Sys in Bldgs	ConE 340 ⁴ (3) Concr & Steel Constr	ConE 422 ⁴ (3) Constr Estimating & Cost Engr	ConE 487 (3) Constr Engrg Design I
*CE 160 (3) Eng Prob w/Comp Lab	CE 170 (2) Graphics for Civil Engineers	CE 111 (3) Fund of Surveying I	ConE 251 (1) M/E Materials and Methods	ConE 353 (3) Elec Sys in Bldgs	ConE 322 ⁴ (3) Constr Equip & Hvy Constr Meth	ConE 441 ⁴ (3) Constr Plng, Sch & Cont	ConE 488 (3) Constr Engrg Design II
*Math 165 (4) Calculus I	*Math 166 (4) Calculus II	Math or Stat Elective ² (3)	Math 267 (4) Elem Differential Eqn & Laplace	Statistics (3) 231 Prob & Stat for Engineers OR 305 Engr Statistics	Law Elective (3) ConE 380 or Acct 215	CE 383 (1) Dsgn of Ptlnl Cem Concr	Bus Comm (3) Elective ¹ Engr 302/309/314
*Chem 167 (4) Gen Chem for Eng Students	*Phys 221 (5) Intro to Classical Physics I	Phys 222 (5) Intro to Classical Physics II	EM 274 ⁴ (3) Engr Statics	EM 324 ⁴ (3) Mech of Matls	CE 360 ⁴ (3) Soils Engrg	CE 333 (3) Struc Dsgn Stl I	CE 334 (3) Reinf Concr Dsgn I
*Engl 150 ¹ (3) Critical Thinking & Communication	*Engl 250 ¹ (3) WOVE Communication	SSH Elective (3) Econ 101 or 102	IE 305 (3) Engineering Economic Analysis	EM 378 ⁴ (3) Mech of Fluids	CE 332 ⁴ (3) Struct Analysis I	Engr Topics (3) Elective ³	SSH Elective (3) International Perspective
*Engr 101 (R) Engineering Orientation	*Lib 160 (1) Libr Instr			SSH Elective (3) Psych 101/230/280 Soc 134	EM 327 (1) Mech of Matls Lab	SSH Elective (3) US Diversity	
(15)	(16)	(17)	(14)	(18)	(16)	(16)	(15)

Transfer Grade Requirements:
The department requires a grade of C or better for any transfer credit course that is applied to the degree program.

1) Minimum grade ENGL courses: C in each

***Denotes Basic Program Course**

2) Math or Statistics Elective

Math 265 (4)
Math 207 (3)
Stat 587 (4)

3) Engineering Topics Electives

3 Credits Required for Building Emphasis

CE 326 (3) ConE 490 (1-3)
CE 372 (4) EM 345 (3)
CE 446 (3) (alt S) EE 314 (3)
CE 448 (3) (alt S) MatE 273 (3)
CE 460 (3) Geol 201 (3) Fall only
ConE 354 (3)
ConE 381A (1) & ConE 481A (1) Fall only
Any CE 500-level course (except CE 594A)

- CE 501 (3) (F only)
- CE 502 (3) (S only)
- CE 503 (3) (S only)
- CE 505 (3) (F only)
- CE 594L (3) (SS only)
- CE 594O (3) (Alt S only)
- CE 594P (3) (F only)
- CE 594W (3) (Alt S only)

4) Building Emphasis Core Courses

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

Total credits required, undergraduate program:
Building Emphasis 127

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