

Construction Engineering

Electrical Option

Prerequisites in Red

COURSE MATRIX 2023-2024 Catalog

127 Credits

SAMPLE

Co-requisites in Blue

1 Fall		1 Spring		2 Fall		2 Spring		3 Fall		3 Spring		4 Fall		4 Spring	
ConE 121 Learning Community (1)	ConE 122 Learning Community (1)	ConE 222 (3) Contractor Org & Mgmt of Construction Completion of Basic Program	ConE 241 (3) Construction Materials & Methods Completion of Basic Program	ConE 352 (3) Mechanical Systems in Buildings ConE 222, ConE 251, Phys 232, Phys 232L	Law Elective (3) ConE 380 Jr Status Acct 215 Soph Status	ConE 422 ⁴ (3) Constr Estimating & Cost Engr ConE 241, ConE 251	ConE 487 (3) Construction Engineering Design I ConE 352, ConE 353, ConE 422, Con E 441								
* CE 160 (3) Eng Prob w/ Comp Lab Math 165	CE 170 (2) Graphics for Civil Engineers	CE 111 (3) Geomatics Math 165, CE 160, CE 170	ConE 251 (1) M/E Materials & Methods ConE 241	ConE 353 (3) Electrical Systems in Buildings Phys 232, Phys 232L, ConE 352	EE 230 ⁴ (4) Electronic Circuits & Systems EE 201, Math 267, Phys 232, Phys 232L	ConE 441 ⁴ (3) Constr Planning, Scheduling, & Control ConE 422	ConE 488 (3) Construction Engineering Design II ConE 352, ConE 353, ConE 422, ConE 441								
* Math 165 (4) Calculus I C- or higher in Math 143 or placement on ALEKS	* Math 166 (4) Calculus II C- or higher in Math 165	Math or Stat Elective (3) Math 265 (4) C- in Math 166 Math 207 (3) 2 sem Calc Stat 587 (4) Stat course	Math 267 (4) Elem Differential Equations w/ Laplace C- or higher in Math 166	Engineering Statistics (3) Stat 231 (4) Math 265 Stat 305 (3) Math 165	EE 303 ⁴ (3) Energy Systems & Power Electronics Math 267, Phys 232, Phys 232L, EE 230	EE 456 ⁴ (3) Power System Analysis I Fall Only EE 303	EE 457 (3) Power System Analysis II Spring Only EE 303								
* Chem 167 (4) Gen Chem for Engineers 1 yr HS Chem and Math 140 or HS equivalent	* Phys 231/231L (5) Intro to Classical Physics I Math 166	Phys 232/232L (5) Intro to Classical Physics II Phys 231/231L, Math 166	CE 274 ⁴ (3) Engineering Statics Phys 231/231L, Math 166	EM 324 ⁴ (3) Mechanics of Materials CE 274	ABE 378 ⁴ (3) Mechanics of Fluids CE 274	CE 332 ⁴ (3) Structural Analysis I EM 324	Business Comm (3) Elective ¹ Engl 302/309/314 Engl 250, Jr Status								
* Engl 150 ¹ (3) Critical Thinking & Communication	Engl 250 ¹ (3) WOVE Communication Engl 150 or exemption Lib 160	Econ 101 or (3) Econ 102	IE 305 (3) Engineering Economic Analysis Math 166	EE 201 (4) Electric Circuits Math 267, Phys 231	SSH Elective ² (3)	Engineering Topics (3) Elective ³	International (3) Perspectives Elective								
* Engr 101 (R) Engineering Orientation	*Lib 160 (1) Information Literacy					US Diversity (3) Elective									
(15)	(16)	(17)	(14)	(16)	(16)	(18)	(15)								

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

* Denotes Basic Program Course

1) ENGL Courses require a minimum grade of C

3) Engineering Topics Electives
3 credits required for Electrical Emphasis

ConE 354 (3)
ConE 490 (1-3)
Any EE 300- or 400-level course
Any CE 500-level course (except CE 594A)

4) Core Courses
Core classes require a MINIMUM cumulative 2.00 GPA

2) SSH Elective
Anthr 210x (3)* Intst 235 (3)* Phil 334 (3) Psych 280 (3)
Anthr 220 (3)* Ldst 322 (3)* Phil 343 (3) Soc 134 (3)
Anthr 230 (3)* Mgmt 370 (3) PolS 241 (3)
Hist 280 (3)* Mgmt 371 (3) PolS 251 (3)*
Hist 284 (3)* Phil 230 (3) Psych 101 (3)
Hist 378 (3)* Phil 235 (3)* Psych 230 (3)

* These courses may appear on multiple elective lists but may only be applied for ONE elective.

CE 501 (3)
CE 502 (3)
CE 503 (3)
CE 505 (3)
CE 594L (3)(SS only)

CE 241 (3)
CE 274 (3)
EM 324 (3)
ABE 378 (3)
ConE 422 (3)
ConE 441 (3)
CE 332 (3)
ConE 487 (3)
ConE 488 (3)