

# CIVIL ENGINEERING PROGRAM

2017-2018

## PRE-ENGINEERING PROGRAM

Note: Course schedule and offerings subject to change. Check OSU Online Schedule of Classes when registering.

### FRESHMAN

Cr.	Fall	Winter	Spring
1	MTH 251 <sup>E</sup> Differential Calculus F,W,S	MTH 252 <sup>E</sup> Integral Calculus F,W,S	MTH 254 <sup>E</sup> Vector Calculus I F,W,S
2			
3			
4			
5	CH 201 <sup>E</sup> Chem for Engrs F,W	CH 202 Chem for Engrs W,S	PH 211 <sup>E</sup> Gen Physics/Calc F,W,S
6			
7			
8	CCE 101 CCE Orientation	CCE 102 <sup>E</sup> Problem Solving & Technology	ECON 201 Intro to Microecon Perspectives- SP&I F,W,S
9			
10	WR 121 <sup>E</sup> English Composition F,W,S	COMM 111/114 <sup>E</sup> Sp Communication F,W,S	CH 205 - LAB W,S
11			
12	# Perspectives - Literature & Arts F,W,S	#PAC, HHS 241 or MS 130	# HHS 231 - Lifetime Fitness & Health F,W,S
13			
14			
15			
16			

### SOPHOMORE

Cr.	Fall	Winter	Spring	Cr.
1	MTH 306 <sup>E</sup> Matrix & Power Series Methods F,W,S	MTH 256 <sup>E</sup> Applied Differential Equations F,W,S	WR 327 Technical Writing F,W,S	1
2				
3				
4	PH 212 <sup>E</sup> Gen Physics/Calc F,W,S	PH 213 <sup>E</sup> Gen Physics/Calc F,W,S	Biological Science w/Lab F,W,S	4
5				
6				
7	ENGR 211 <sup>E</sup> Statics F,W,S	ENGR 213 <sup>E</sup> Strength of Materials F,W,S	**ENGR 212 Dynamics F,W,S	7
8				
9	CCE 201 Graphics & Design F,W	CE 202 Geospatial Info & GIS W,S	**ST 314 Intro Stats for Engrs F,W,S	8
10				
11			# Perspectives - Cultural Diversity F,W,S	9
12				
13				10
14				11
15				12
16				13

Enrollment term is limited by alphabetical sectioning:			
	Fall	Winter	Spring
<b>WR 121</b>	A-G	H-N	O-Z

Biological science classes with labs & without prerequisites:

Fall	Winter	Spring
ANS 121	ANS 121	ANS 121
BI 101	BI 102	BI 103
MB 230	MB 230	MB 230
SUS 102	SUS 102	SUS 102
SOIL 205 & 206	SOIL 205 & 206	SOIL 205 & 206
FES 240		FES 240
BOT 220		BOT 101
RNG 121		

<sup>E</sup> Required by College of Engineering for entry into the Professional Prog.  
F, W, S = Term(s) in which course is offered.

\*\* Prerequisites for Professional Program courses.

# Courses may be taken for S/U grade.

## PROFESSIONAL PROGRAM

### JUNIOR

Cr.	Fall	Winter	Spring
1	CE 311 Fluid Mechanics F,W	CE 313 Hydraulic Engineering W,S	CE 412 Hydrology F,S
2			
3			
4			
5	CE 381 Structural Theory I F,W	CE 382 Structural Theory II W,S	CE 481 Reinforced Concrete I F,S
6			
7			
8	CE 361 Surveying Theory	CE 372 Geotechnical Engineering I W,S	CE 373 Geotechnical Engineering II F,S
9			
10			
11			
12	CE 301 - Seminar*	CE 392 Intro to Highway Engineering W,S	CCE 321 Civil & Construction Engineering Materials F,S
13			
14			
15			
16			

### SENIOR

Cr.	Fall	Winter	Spring	Cr.
1	CE 383 Design of Steel Structures F,W	CE 418 <sup>^</sup> CE Professional Practice	CE 419 Civil Infrastructure Design	1
2				
3				
4	CE 491 Transportation Engr F,S	CE 420 Engineering Planning F,W	ENVE 321 Environmental Engineering Fundamentals	4
5				
6	Technical Elective F,W,S	Technical Elective F,W,S	Technical Elective F,W,S	5
7				
8				
9				
10	# Synthesis - Contemp Global Issues F,W,S	ENGR 201 Electrical Fund. I F,W,S	# Synthesis - Sci, Tech, & Society F,W,S	10
11				
12				
13		# Perspectives -- Western Culture F,W,S		11
14				
15				12
16				13

<sup>^</sup> Writing Intensive Course

\* CE seminar is required for students entering pro-school in the 2016-2017 academic year, or later.

  Admission to Professional Program required to register for these classes.

Total credits required for BS CE = 180 credit hours (average load = 15 credits per term)

Technical Electives are specific CoE upper division (300-500 level) courses not otherwise required in the major. Verify with ad

Note: If a course has no terms listed below it (e.g. F,W,S), it is only taught in the term it appears in.