

# CIVIL ENGINEERING

2020-2021 UCF Catalog (128 Hour Program)  
 Department of Civil, Environmental, and Construction Engineering  
 Department Academic Advisor: Dr. Kevin Mackie – EN2 211

<b>First Year Fall</b>	<b>(15)</b>	<b>First Year Spring</b>	<b>(14)</b>
*♦ⓇMAC 2311C – Calc w/An Geom I	(4)	*♦ⓇMAC 2312 – Calc w/An Geom II	(4)
♦ⓇCHS 1440 – Principles of Chemistry	(4)	*♦ⓇPHY 2048C - Physics Using Calc I	(4)
EGS 1006C - Intro to Engr Prof	(1)	EGN 1007C - Engr Concept and Meth	(1)
*ENC 1101 - Engl Comp I	(3)	*ENC 1102 - Engl Comp II	(3)
*ECO/POS	(3)	EGN 3613 – Eng Econ Anal	(2)
<b>Second Year Fall</b>	<b>(16)</b>	<b>Second Year Spring</b>	<b>(16)</b>
*♦MAC 2313 – Calc w/Analytic Geom III	(4)	*♦MAP 2302 - Diff Eqns	(3)
EGN 3310 - Engr Mech - Statics	(3)	EGN 3331C - Mechanics of Materials	(3)
STA 3032 – Prob/Stats for Engrs	(3)	CGN 3405 – Appl Num Meth for CE	(3)
ENV 3001 –Environmental Engrg	(3)	*PHY 2049C – Physics Using Calc II	(4)
*HUM/AMH/EUH/WOH - I	(3)	*HUM/AMH/EUH/WOH – II	(3)
		<b>Second Year Summer</b>	<b>(9)</b>
		*SPC/COM (SPC 1603/1608 Preferred)	(3)
		EGN 3321 - Engr Mech - Dynamics	(3)
		CWR 3201 - Engr Fluid Mechanics	(3)
<b>Third Year Fall</b>	<b>(16)</b>	<b>Third Year Spring</b>	<b>(15)</b>
CWR 4202C – Hydraulics	(3)	Depth Area 1, Course 1	(3)
CES 4100C - Structural Analysis	(4)	Depth Area 2, Course 1	(3)
CEG 4011C – Geotechnical Engr I	(4)	CCE 4003 – Intro Construction Ind	(3)
TTE 3810 – Highway Engineering	(3)	CGN 3501C – CE Materials	(3)
CGN 3700C – CE Measurements	(2)	*ANT/PSY/SYG	(3)
<b>Fourth Year Fall</b>	<b>(15)</b>	<b>Fourth Year Spring</b>	<b>(12)</b>
Approved Project Design Course	(3)	CGN 4808C – Capstone Design	(3)
Depth Area 1, Course 2	(3)	Depth Elective 2	(3)
Depth Area 2, Course 2	(3)	Technical Elective	(3)
Depth Elective 1	(3)	*Cultural/Historical Elective	(3)
*Basic Science	(3)		

- Notes:**
- (1) Nine (9) hours **minimum** summer attendance required by Florida state law.
  - (2) Pre-requisite courses for and within this program require a minimum grade of “C” (2.0) or better.
  - (3) Courses indicated with an asterisk (\*) can typically be taken within a **pre-engineering A.A.** at a Florida Community or State College.
  - (4) **Basic Science choose from EVR 1001, GEO 1200, GEO 2370, GLY 2038, GLY 1030, or MET 2104.**
  - (5) Cultural/Historical Elective should be selected from MUL 2010, PHI 2010, THE 2000 to satisfy both State **and** UCF General Education requirements with one course.
  - (6) Select courses to satisfy HUM/AMH/EUH/WOH that will satisfy 6 hours of Gordon Rule Requirements.
  - (7) Courses indicated with a diamond (♦) are Common Program Prerequisites (CPP).
  - (8) Courses indicated with a flag (Ⓡ) must be completed to clear the “Pending” status.
  - (9) Transfer students will take upper level Technical Electives in place of EGS 1006C and EGN 1007C.
  - (10) Students should check CECE Department website for a list of **approved** Technical Electives ([www.cece.ucf.edu](http://www.cece.ucf.edu)).
  - (11) All CECE majors are required to take and report results of the Fundamentals of Engineering Exam prior to graduation in accordance with the Florida Board of Professional Engineers and National Council of Examiners for Engineering and Surveying guidelines (see [www.fbpe.org](http://www.fbpe.org) and [www.ncees.org](http://www.ncees.org)).
  - (12) Project Design Courses are: CEG 4801C, CES 4743C, CWR 4812C, or TTE 4601C
  - (13) Complete two (2) Depth Areas from *Mechanics*: EGN 3343 and CES 4205; *Structural*: CES 4605 and CES 4702; *Geotechnical*: CEG 4012 and CWR 4124; *Water Resources*: CWR 4120 and CWR 4124; or *Transportation*: TTE 4274 and TTE 4300.
  - (14) Take two (2) additional courses from those not taken above or from *Environmental*: ENV 4531, ENV 4561 or *Construction*: CCE 4004, CCE 4034