DEGREE REQUIREMENTS
BACHELOR OF SCIENCE IN COMPUTER ENGINEERING – CPE
FOR STUDENTS ENTERING CATALOG YEAR 2023-Present
HERBERT WERTHEIM COLLEGE OF ENGINEERING, UNIVERSITY OF FLORIDA

CPE

GENERAL EDUCATION REQUIREMENTS BEYOND MAJOR REQUIREMENTS (15 hours total) **+

Composition (GE-C) ……3 Humanities (Quest 1)(GE-H)……6

Social & Behavioral Sciences (Quest 2) (GE-S) ……6 International & Diversity (GE-N, GE-D)*……6

*Courses selected could also fulfill the General Education requirements in Social & Behavioral Science (GE-S) or Humanities (GE-H).
**The Mathematics, Physical Sciences, & Biological Sciences requirements (18 hours) are fulfilled by departmental requirements listed below.
+Students may have to complete additional General Education courses to meet State Core requirements. See advisor for course requirements.

DEPARTMENTAL REQUIREMENTS

(*Prerequisites listed in (parentheses)*; Co-requisites underlined)

Critical Tracking: Mathematics (15 hours)

__MAC 2311* (4) Analytical Geometry & Calculus 1 (*ALEKS/MAC 1147/Test credit*)
__MAC 2312* (4) Analytical Geometry & Calculus 2 (*Calc 1*)
__MAC 2313* (4) Analytical Geometry & Calculus 3 (*Calc 2*)
__MAP 2302* (3) Differential Equations (*Calc 1*)

Critical Tracking: Physics (6 hours)

__PHY 2048* (3) Physics 1 w/ Calculus (*HS Physics or PHY 2020, Calc 1*; Calc 2)
__PHY 2049* (3) Physics 2 w/ Calculus (*PHY 2048 & Calc 2*; Calc 3)

Enrichment Electives (minimum of 7 hours)

For approved list of courses see:
https://cpe.eng.ufl.edu/enrichment-electives/

College Writing Requirement (3 hours)

__ENC 3246* (3) Professional Communication for Engineers

Gen Ed Physical and Biological Sciences (4 hours)

__For approved list of courses see: https://catalog.ufl.edu/UGRD/colleges-schools/UGENG/CPE_BSCO/#modelsemesterplantext

Computer Engineering Core Courses (52 hours)

__EGN 2020C (2) Engineering Design & Society (First Year Only)
__COP 3502C* (4) Programming Fundamentals 1 (Java) (Calc1)
__COP 3503C* (4) Programming Fundamentals 2 (C++) (*COP 3502,* MAC2311) or **COP 3504C** (4) (AP CS 4-5)[1]
__COT 3100* (3) App. of Discrete Structures (*Calc 1*; *COP 3503C*)
__CDA 3101* (3) Intro to Comp. Organization (*Calc 1*, *COT 3100*)
__COP 3530* (3) Data Structures & Algorithms (*COP 3503, COT 3100, Calc 2*)
__CEN 3031* (3) Intro to Software Engineering (*COP 3530*)
__COP 4600* (3) Operating Systems (*COP 3530*, *CDA 3101; CEN 3907C*)
__EEL 3111C (4) Circuits 1 (*PHY 2049, Calc 2*)
__EEL 3135 (4) Signals & Systems (*Calc 3, COP 3503C)*
__EEL 3701C* (4) Digital Logic & Computer Systems (*prog. Experience*)
__EEL 4744C* (4) Microprocessor Applications (*EEL 3701C)*
__EEL 4712C (4) Digital Design (*EEL 3701C*)
__EGS 4034 (1) Engineering Ethics and Professionalism (*Jr. status*)
__STA 3032 (3) Engineering Statistics or **STA 4321** (*Calc 1*)
__MAS 3114 (3) Comp. Linear Alg. or **MAS 4105** (*Calc 2 & programming language EP*)

Design I & II Sequences (6 Credits)

__CEN 3907C* & CEN 3908C* (CpE Design) (*CEN 3031, EEL 4744C; COP 4600*)
__EGN 4951* & EGN 4952* (IPPD) (*CEN 3031, EEL 4744C, COP 4600*)

± Minimum Total Hours……126

Tech Electives (18 hours)

Technical elective coursework is in addition to core coursework and enrichment electives. At least 12 technical elective credits must be from the CISE and/or ECE department(s).
Qualifying technical electives include, unless otherwise excluded:

- 4000-level or higher CpE program, CISE, Mathematics, and Statistics courses
- 3000-level CAP prefix CISE, ECE, and Physics courses
- Other courses approved by program coordinator

The following courses do not qualify as technical electives (i.e., are excluded):

- Required curriculum courses
- EEL 3000, EEL 3003, EEL 3834, EEL 3872, EEL 4837

-Students may take no more than one technical elective that teaches a specific programming language; courses teaching Python and C++ do not qualify.
-No more than 3 hours of co-op / Practical Work will qualify
-No more than 6 hours of Research and/or Independent Study credits will qualify
-No more than 8 hours of Research, Independent Study, and/or Practical Work credits will qualify

Other Notes and Restrictions

-MAD 4203 and MAD 3107 will not qualify for any portion of the required credits for the CpE program (including technical, enrichment, and general electives)"
-Only one of COT 4501 and MAD 4401 may qualify for CpE requirements
-Only one of COT 4420 and MAD 4505 may qualify for CpE requirements

CpE students will have credit for two programming courses (Java and C++). One additional programming language course (not Java or C++) can count as a technical elective. EEL 3834 is no longer considered a tech elective.
Notes:

- ✓ Communication between students and Advisors is conducted through the CpE Advising Corner Canvas page.
- ✓ Students must complete all Critical Tracking courses (in bold) with a grade of C or better within two attempts (W's do count as attempts) while maintaining a 2.5 tracking GPA.
- ✓ Must maintain UF, upper-division, and major GPA of at least 2.0.
- ✓ Any course that is a pre-requisite to another course in the curriculum must be completed with a grade of C or better. Concerns can be addressed with the academic advisor.
- ✓ Both University and Departmental Exit Interviews are required during the final semester.
- ✓ Students who do not meet these requirements will be placed on academic probation and will be required to prepare a probation contract with a CpE advisor.

Rev 4/21– This document is intended to be used only as a counseling guide. Graduation requirements are more completely specified in the UF Undergraduate Catalog. Students are asked to meet with their academic advisor for verification of all degree and graduation requirements.
*These courses require a grade of C or higher to count toward graduation.

[1] COP3504C may be taken in lieu of COP3502C/COP3504C. Students must complete an additional 4 credits to meet graduation requirements.