DEGREE REQUIREMENTS
BACHELOR OF SCIENCE IN COMPUTER ENGINEERING – CPE
FOR STUDENTS ENTERING CATALOG YEAR 2021-Present
HERBERT WERTHEIM COLLEGE OF ENGINEERING, UNIVERSITY OF FLORIDA

CPE

GENERAL EDUCATION REQUIREMENTS (18 hours total) **+

Composition (GE-C & ENC3246) 6   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)

Mathematics (15 hours)

__MAC 2311   (4)   Analytical Geometry & Calculus 1 (*ALEKS/MAC1147/Testing 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*)

Physics (6 hours)

__PHY 2048   (3)   Physics 1 w/ Calculus (*HS Physics or PHY2020, Calc 1*; Calc 2)
__PHY 2049   (3)   Physics 2 w/ Calculus (*PHY2048 & Calc 2*; Calc 3)

Chemistry (4 hours)

__CHM 2045   (3)   General Chemistry (*MAC1147, CHM1025 or passing grade on ALEKS*)
__CHM 2045L (1)   Lab for CHM2045 (CHM2045)

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

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++) (*COP3502 or 4-5 AP cr.*, MAC2311)
__COT 3100   (3)   App. of Discrete Structures (*Calc 1*; COP3503)
__CDA 3101   (3)   Intro to Comp. Organization (*Calc 1, COT3100*)
__COP 3530   (3)   Data Structures & Algorithms (*COP3503, COT3100, Calc 2*)
__CEN 3031   (3)   Intro to Software Engineering (*COP3530*)
__COP 4600   (3)   Operating Systems (*COP3530, CDA3101*)
__EEL 3111C (4)   Circuits 1 (*PHY2049, Calc 2*)
__EEL 3135   (4)   Signals & Systems (*Calc 3, COP3503C*)
__EEL 3701C (4)   Digital Logic & Computer Systems (*prog. experience*)
__EEL 3744C (4)   Microprocessor Applications (*EEL3701C, COP3503C*)
__EEL 4712C (4)   Digital Design (*EEL3701C*)
__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 3907 & CEN 3908 (CpE Design) (*CEN 3031, EEL 4744C*)
__EGN 4951 & EGN 4952 (IPPD) (*CEN 3031, EEL 3111C, EEL 47344C*)

± Minimum Total Hours…………………………………………………………………126

Tech Electives* (18 hours)

Technical Elective courses must follow the guidelines below:

Tech Electives must be at least 3000 level coursework that does not include a Core requirement or Enrichment Elective; 12 hours MUST come from ECE or CISE Coursework. **EEL 3003, CGS 3065, CGS 3063, COP 3275, EEL 3834, EEL 3874, EEL 3000 or any documented class CANNOT be used as a tech elective. For and updated list please see** https://cpe.eng.ufl.edu/tech-electives/

In addition to the 12 hours of ECE/CISE coursework 6 hours **can** come from the following:

- Any 3000-level or higher PHY Courses
- Any 4000-level or higher math or statistics courses with the prefixes of STA, MAA, MAD, MAP, MAS, or MHF not taken to fulfill any other requirement with the following exceptions:
- Take only ONE of these:
  - COT3100, MAD4203, or MAD3107
  - COT4501 or MAD4401; may NOT take both
  - COT4420 or MAD4504; may NOT take both
- Internship or Co-Op up to 3 hours can be used.
- Undergraduate Research or Independent Study up to 6 hours can be used.
- Student may only take Research, Independent Study and Internships for a total of 8 Hours.
- Any Advisor Approved Course

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 & COP 3275 will no longer be considered for tech electives.

Notes:
- ✓ Communication between students and Advisor are conducted through the ECE 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 a 2.0 to be in good standing.
- ✓ 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.