

## Computer Engineering Degree Requirements (126 hours total)

A minimum grade of C is required for each critical tracking (CT) course (***italicized and bold in table below***) and the critical-tracking GPA must be a minimum of 2.5.

Also, a minimum grade of C required in ENC 3254, COP 3502, COP 3503, EEL 3701C, and CpE Design 2 (CEN 4912, EEL 4924, or CIS/EEL 4913)

A CpE major grade point average (GPA) is calculated as the average of the grades of all the CISE and ECE courses taken by the student. CpE students must maintain a cumulative, upper-division and CpE major GPA minimum of 2.0.

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 adviser. Students are normally given two terms to remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the program.

### Critical Tracking

To graduate with this major, students must complete all university, college and major requirements. Equivalent critical-tracking courses as determined by the State of Florida Common Course Prerequisites may be used for transfer students.

#### Semester 1

- 2.0 UF GPA required for semesters 1-5
- 2.5 GPA on all critical-tracking courses for semesters 1-5
- Complete 1 of 8 tracking courses with a minimum grade of C within two attempts: CHM 2045 or CHM 2095, CHM 2046 or CHM 2096 or approved biological science course, MAC 2311, MAC 2312, MAC 2313, MAP 2302, PHY 2048, PHY 2049

#### Semester 2

- Complete one additional critical tracking course with a minimum grade of C within two attempts

#### Semester 3

- Complete two additional critical-tracking courses with minimum grades of C within two attempts

#### Semester 4

- Complete two additional critical-tracking courses with minimum grades of C within two attempts

#### Semester 5

- Complete all 8 critical-tracking courses with minimum grades of C in each course within two attempts

**General Education (57 hours total)**

<b>Physical Sciences (P); Biological Sciences (B)</b>	<b>15</b>
<i>CHM 2045 General Chemistry 1 or CHM 2095 Chemistry for Engineers 1 (GE-P)</i>	3
CHM 2045L General Chemistry 1 Laboratory (GE-P)	1
<i>PHY 2048 Physics with Calculus 1 (GE-P)</i>	3
PHY 2048L Physics with Calculus 1 Laboratory (GE-P)	1
<i>PHY 2049 Physics with Calculus 2 (GE-P)</i>	3
PHY 2049L Physics with Calculus 2 Laboratory (GE-P)	1
<i>Biological Science 2000 level or above (GE-B) or CHM 2046 General Chemistry 2 or CHM 2096 Chemistry for Engineers 2 (GE-P)</i>	3
<b>Social &amp; Behavior (S); Humanities (H)</b>	<b>15</b>
HUM 2305 What is the Good Life (GE-H)	3
Social and Behavioral Sciences (GE-S)	6
Humanities (GE-H)	3
Social and Behavioral Sciences (GE-S) or Humanities (GE-H)	3
<b>Math (M)</b>	<b>15</b>
<i>MAC 2311 Analytic Geometry and Calculus 1 (GE-M)</i>	4
<i>MAC 2312 Analytic Geometry and Calculus 2 (GE-M)</i>	4
<i>MAC 2313 Analytic Geometry and Calculus 3 (GE-M)</i>	4
<i>MAP 2302 Elementary Differential Equations (GE-M)</i>	3
<b>General Education Others</b>	<b>12</b>
Approved engineering ethics course	1
ENC 3254 Professional Communication for Engineers (GE-C, WR-6)	3
EGN College Breadth, from approved list	5
STA 3032 Engineering Statistics	3

**Required Computer Engineering Core (51 hours total)**

<b>Programming, Linear Algebra</b>	<b>9</b>
COP 3502 Programming Fundamentals 1	3
COP 3503 Programming Fundamentals 2	3
MAS 3114 Computational Linear Algebra	3
<b>Required CpE Core Courses from CISE</b>	<b>16</b>
CDA 3101 Introduction to Computer Organization	3
CEN 3031 Introduction to Software Engineering	3
COP 3530 Data Structures and Algorithms	4
COP 4600 Operating Systems	3
COT 3100 Applications of Discrete Structures	3

<b>Required CpE Core Courses from ECE</b>	<b>20</b>
EEL 3111C Circuits 1	4
EEL 3135 Signals and Systems	4
EEL 3701C Digital Logic and Computer Systems	4
EEL 4712C Digital Design	4
EEL 3744C Microprocessor Applications	4
<b>Capstone Design</b>	<b>6</b>
<b>CpE Design 1</b> CEN 3923 CISE Design 1 or EEL 3923 ECE Design 1 or EEL/CIS 4912 Integrated Product & Process Design 1	3
<b>CpE Design 2</b> CEN 4914 CISE Design 2 or EEL 4924 ECE Design 2 or EEL/CIS 4913 Integrated Product & Process Design 2	3

### Computer Engineering Tech Electives (18 hours total)

At least 12 hours must be courses  $\geq 3000$  level in the departments of CISE or ECE

- List of exceptions is posted on the CpE website: [www.cpe.eng.ufl.edu/elective-exceptions](http://www.cpe.eng.ufl.edu/elective-exceptions)
- A CpE student will have credit for two programming courses (Java and C++). One additional programming language course (not Java or C++) can count as a tech elective.

Up to 6 hours of the following courses

- $\geq 4000$ -level courses in the Math department
- $\geq 3000$ -level courses in the Physics department
- $\geq 4000$ -level statistics courses
- $\geq 3000$ -level courses in any department in the College of Engineering
- Any advisor-approved course