DEGREE REQUIREMENTS[≠]
BACHELOR OF SCIENCE IN COMPUTER SCIENCE (CPS) – CATALOG 2021 AND LATER
DEPT OF COMPUTER AND INFORMATION SCIENCE AND ENGINEERING
COLLEGE OF ENGINEERING, UNIVERSITY OF FLORIDA

CPS

GENERAL EDUCATION** (36 credits, 20 of which are covered by Departmental Requirements***)

Social and Behavioral Sciences ……..... 6
Humanities…… 6
Hum. or Soc./Beh. Sci. or Phy./Bio. Sciences …… 6

**At least three (3) credit hours must be classified as "International".
***Mathematics, part of Physical / Biological Sciences, and part of Composition requirements are covered by departmental requirements.
¥Students who enter UF in or after Summer B 2021 are required to complete the UF Quest 1 and the UF Quest 2 requirement except if they have an A.A. from a Florida public college/state university or are in the Innovation Academy program.

DEPARTMENTAL REQUIREMENTS (104 credits)
Critical Tracking courses are in bold.

Mathematics (18)
__**MAC 2311 Analytic Geometry & Calculus 1** …… **4**
__**MAC 2311 Analytic Geometry & Calculus 2** …… **4**
__**MAC 2311 Analytic Geometry & Calculus 3** …… **4**
__MAS 3114 Comp. Linear Algebra (MAC2312) ……..... 3
__STA 3032 Engineering Statistics (MAC2311) …….. 3

Physics (8)
__**PHY 2048 Physics w/Cal 1** (PHY2020, MAC2311, MAC2312, PHY2048L)**3**
__PHY 2048L Lab for Physics w/Cal 1 (PHY2048) ..…… 1
__**PHY 2049 Physics w/Cal 2** (PHY2048, MAC2313, PHY2049L) ……... **3**
__PHY 2049L Lab for Physics w/Cal 2 (PHY2049) …….. 1

Communications (6)
__ENC 2256 Writing in the Disciplines
OR ENC 3246 Professional Communications for Engineers …… 3
__Additional Approved Communications Course for CPS…….. 3

Interdisciplinary Electives (14)
***Option A*: 14 credits applicable toward formal minor and not counting for other requirements; completion of minor not required if it exceeds 14 credits.**
** If completed minor contributes less than 14 credits, remaining credits can be fulfilled with additional 3000-level coursework in the area of the minor, 3000-level CISE courses, or 3000-level Engineering courses.*

***Option B*: 14 credits in a concentration area outside of CISE at 3000-level or higher (advisor approval required).**

***Option C*: 14 credits arranged with a department of interest which does not offer a formal minor.**

Computer Science Major Courses (38)
__**COP 3502C Prog. Fundamentals 1** (MAC 2311) …… **4**
__COP 3503C Prog. Fundamentals 2 (MAC 2311, COP3502C) …….. 4
__COT 3100 App. Of Discrete Struct. (MAC 2311, COP3503C) …….. 3
__COP 3530 Data Struct. & Alg. (MAC2312, COP3503C, COT3100) ……. 3
__CDA 3101 Intro. to Comp. Org. (MAC2311, COP3503C, COT3100) ….. 3
__CEN 3031 Intro. to Software Engineering (COP3530) ……..…….. 3
__CIS 4301 Info. & Database Systems (COP3503C, COT3100) …….. 3
__COP 4020 Programming Language Concepts (COP3530) …….. 3
__COP 4533 Algorithm Abstraction & Design (COP3530) ……... 3
__COP 4600 Operating Systems (COP3530) …… 3
__CNT 4007 Computer Network Fundamentals (COP4600) …….. 3
__CIS 4914 Senior Project (4EG)
OR EGN 4952 IPPD 2 (4EG) …….. 3

Ethics (1)
__EGS 4034 Professional Ethics (4EG+)…… 1
OR PHI 3681 Ethics, Data, & Technology…… 3
OR CGS 3065 Legal & Social Issues in Computing…… 3

General Elective (1)
Any course credit not applied to another requirement will meet this requirement.

Technical Electives (18) – (min 14 hrs must be CISE) The following list includes categories of courses and is not exhaustive, nor are all courses always offered.

CISE Tech Elective Options (minimum of 14 credit hours)
__Any 4000-level CISE course (see current course sched.)…….. 1-3
CIS 4905 Independent Study…….... 1-4
CIS 4930 Special Topics…….. 3
CIS 4940 Internship…….... 1-3
EGN 4912 Engineering Undergraduate Research…….. 0-3
EGN 4951 (IPPD 1) ..……..…. 3
__Students may take up to two (2) 3000-level CAP courses
__EEL 3701C, EEL 4744C
__MAP 2302

Non-CISE Tech Elective Options (max of 4 credit hours)
1) EIN 3354, EGN 4641, EGN 4643, EGS 4038
2) Any 4000-level or higher ECE or PHY course not taken to fulfill some other requirement, excluding EEL 4834 and most CGS courses.
3) Any 4000-level math or statistics course with the prefix STA, MAA, MAD, MAP, MAS or MHF not fulfilling another requirement.

NOTES:
- Students must complete all Critical Tracking courses with a C or better within two attempts (W counts as an attempt) within 5 semesters, while maintaining a 2.5 tracking GPA. Must maintain UF and CISE GPA of 2.0.
- Students who do not meet requirements above will be placed on academic probation and will be required to sign a probation contract with a CISE advisor. Students are normally given two terms to raise their GPAs or remove their deficit points; however, students who do not satisfy the conditions of the first term of probation may be dismissed from the department.
- ENC2256 OR ENC 3246 must be completed with a C or better. A grade of C- or lower will not fulfill degree requirements.
- A minimum grade of C is required in all prerequisites to required courses: COP 3502C, COP 3503C, COT 3100, CDA 3101, COP 3530, and COP 4600.
- Courses in parenthesis are prerequisites; underlined courses are co-requisites.
- An Exit Interview is required during final semester. Please see an academic advisor for details.
- CGS 3065 or PHI3681will count for both the Ethics requirement and 3 credits of Technical Electives. Students can take CGS3065 or PHI3681, not both.
- COP 3054C may replace COP3502C and COP3503C if students have prior programming experience. If a student opts for COP 3504C, an additional 4 credit hours of electives is required.

≠ Minimum Total Hours…… 120