DEGREE REQUIREMENTS+
BACHELOR OF SCIENCE IN COMPUTER SCIENCE (CSE) – CATALOG 2021 AND LATER
DEPT OF COMPUTER AND INFORMATION SCIENCE AND ENGINEERING
COLLEGE OF ENGINEERING, UNIVERSITY OF FLORIDA

	CSE

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

Social and Behavioral Sciences …………………………6	Hum. or Soc./Beh. Sci. or Phy./Bio. Sci. ………………4
Humanities ……………………………………………6	

**At least three (3) credit hours must be classified as "International" and three (3) credit hours classified as "Diversity".
***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 2312 Analytic Geometry & Calculus 2**.....................4
__**MAC 2313 Analytic Geometry & Calculus 3**.....................4
__MAS 3114 Comp. Linear Algebra (Cal 2) 3
__STA 3032 Engineering Statistics (Cal 1) 3

Physics (8)
__**PHY 2048 Physics w/Cal 1** (HS Physics, Cal 1; Cal 2, PHY2048L) 3
__PHY 2048L Lab for PHY 2048 (PHY 2048)...............................1
__**PHY 2049 Physics w/Cal 2** (PHY 2048; Cal 3, PHY 2049L).........3
__PHY 2049L Lab for PHY 2049 (PHY 2049) 1

Communications (6)
__ENC 3246 Professional Communications for Engineers 3
__Additional Writing/Public Speaking course (approved list)..3

Interdisciplinary Electives (14) (choose one option)

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.**

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

Computer Science Major Courses (38)
__**COP 3502C Prog. Fundamentals 1** (MAC 2311) 4
__COP 3503C Prog. Fundamentals 2 (MAC 2311, COP 3502C) 4
__COT 3100 App. of Discrete Struct. (MAC 2311, COP 3503C)......3
__COP 3530 Data Struct. & Alg. (COP 3503C, COT 3100, Calc 2) …3
__CDA 3101 Intro to Comp. Org. (MAC2311, COP 3503C, COT 3100).....3
__CEN 3031 Intro to Software Engineering (COP 3530) 3
__CIS 4301 Info & DB Sys Des & Dev 1(COP 3503C, COT 3100) 3
__COP 4600 Operating Systems (COP 3530, CDA 3101) 3
__COP 4020 Programming Language Concepts (COP 3530) 3
__COP 4533 Algorithm Abstraction & Design (COP 3530) 3
__CNT 4007 Comp. Network Fund. (COP 4600) 3
__CIS 4914 Sr. Project (4EG) **OR**
__EGN 4952 IPPD 2 (4EG, CIS 4912C).....................................3

Ethics (1)
__EGS 4034 Professional Ethics (4EG+) 1
OR CGS 3065 Legal & Social Issues in Computing (F) 3

Technical Electives (18) - 14 hrs must be CISE courses. 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 4930 Special Topics.......................................3
__EGN 4912 Engineering Undergraduate Research…...…...1-3
__CIS 4930 Special Topics 3
__CIS 4940 Internship (advisor approval) 1
__CIS 4905 Independent Study 3
1) EEL 3701C, EEL 4744C
2) Students may take up to two (2) 3000-level CAP courses
3) MAP 2302

Non-CISE Tech Elective Options (max of 4 credit hours**)**
1) EIN 3354
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.
4) Students may take up to one (1) of EGN/S 4038, 4641, or 4643.

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.**
- **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 will count for both the Ethics requirement and 3 credits of Technical Electives.**
- **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