Computer Science

120 credits, 2018/2019 Catalog

First Year

	i ii st i cai		
Fall	Semester	Spi	ring Semester
4	MAC 2281 or MAC 2311 Calculus I	4	MAC 2282 or MAC 2312 Calculus II
3	ENC 1101 Composition I	3	PHY 2048 General Physics I
R	EGN 3000 Foundations of Engineering	1	PHY 2048L General Physics I Lab
3	EGN 3000L Foundations of Eng. Lab (TGEC)	3	ENC 1102 Composition II
<u>3</u>	Gen. Ed. Natural Science Elective	<u>3</u>	*COP 2510 Programming Concepts
13	Total Credits	14	Total Credits

Second Year

Fall Semester		Spi	ring Semester	Summer		
4	MAC 2283 or MAC 2313 Calculus III	3	*CDA 3103 Computer Organization	3	COP 4530 Data Struct.	
3	PHY 2049 General Physics II	3	COT 3100 Intro Discrete Structures	3	CDA 3201 Logic Design	
1	PHY 2049L General Physics II Lab	3	COP 3331 Object Oriented Design	1	CDA 3201L Logic Lab	
3	*COP 3514 Program Design	<u>3</u>	St. Gen. Ed. Core Humanities Elective	<u>2</u>	EGN 4450 Linear Systems	
<u>3</u>	** St. Gen. Ed. Core Social Science Elective					
14	Total Credits	12	Total Credits	9	Total Credits	

Third Year

Fall Semester		Spi	ring Semester	Internship/Co-op
3	CDA 4205 Computer Architecture	3	COP 4600 Operating Systems	List Company/employer
3	COT 4400 Analysis of Algorithms	3	CSE Theory Elective	name and position
3	CSE Software Elective	3	CSE Software Elective	
3	EGN 3443 Probability and Statistics for Eng (TGEI)	3	CSE Elective	
<u>3</u>	Gen. Ed. Natural Science Elective	<u>3</u>	ENC 3246 Comm. for Engineers	
15	Total Credits	15	Total Credits	

Fourth Year

Fall Semester		Sp	Spring Semester		
3	CSE Elective	3	CIS 4250 Ethical Issues & Professional Conduct		
3	CNT 4419 Secure Coding		(ERCE)		
3	Gen. Ed. Human & Cultural Diversity Elective	3	CEN 4020 Software Engineering (HIP)		
3	** General Elective	3	CSE Elective		
<u>3</u>	** General Elective	3	CSE Elective		
		<u>1</u>	CSE Elective		
15	Total Credits	13	Total Credits		

Notes: Courses in bold must be completed with a competitive GPA, see overleaf for details.

R - Required course.

- * Requires a minimum grade of a "B".
- ** Students must meet the Civic Literacy requirement with credit for AMH 2020, POS 2041 or passing an exam TBD.

TGE = Tampa General Education; C = Creative Thinking, I = Information & Data Literacy

ERCE - Proposing as Tampa General Education Ethical Reasoning & Civic Engagement

HIP – Proposing for High Impact Practice Capstone

Entrance Requirements: Department of Computer Science & Engineering

- Admission requires a minimum grade of "B" in COP 2510 Programming Concepts (a "B-" is insufficient), and
- Completion of the following courses with a minimum grade of C and an cumulative **3.1 GPA*** (based on best attempt) for the following courses:

Calculus I or Engineering Calculus I (MAC 2311 or MAC 2281)
Composition I & II (ENC 1101 and ENC 1102)
Calculus II or Engineering Calculus II (MAC 2312 or MAC 2282)
Physics I (PHY 2048 and 2048L)
Physics II (PHY 2049 and 2049L)

Continuation in the Major

- Requires completion of CDA 3103 and COP 3514 with a minimum grade of "B" (a "B-" is insufficient) in each course based on best attempt.
- Unless otherwise stated, the minimum acceptable grade in all BSCS required math, science, and engineering courses is a C or higher (C- is insufficient). The minimum acceptable grade in specialization courses is a C-, except as stated in the program admission and continuation requirements.
- A minimum GPA of 2.00 in the following categories must be maintained at all times: Overall, USF, Math/Science, Engineering Courses and Specialization Courses.
- All required math, science, engineering and major/specialization courses must be successfully completed in no more than **two** registered attempts. Grades of W, I, IF, U, R, and M are considered attempts. Registration that is canceled for non-payment is also considered an attempt.

Course Equivalencies

Courses at USF	Courses at a Florida State Institution	
MAC 2281 Engineering Calculus I or MAC 2311 Calculus I	MAC X311 or MAC X281	
MAC 2282 Engineering Calculus II or MAC 2312 Calculus II	MAC X312 or MAC X282	
MAC 2283 Engineering Calculus III or MAC 2313 Calculus III	MAC X313 or MAC X283	
MAP 2302 Differential Equations	MAP X302 or MAP X305	
or EGN 3433 Modeling Analysis of Eng Systems	IMAP X302 OF MAP X303	
CHM 2045/CHM 2045L General Chemistry I with Lab	CHM X045/X045L or CHM X045C or CHM X041/X045L	
Or CHS 2440/2440L General Chemistry for Engineers with lab	or CHS X440/X440L	
PHY 2048/2048L General Physics I with PHY 2048L	PHY X048/X048L or PHY X048C or PHY X043/X048L	
PHY 2049/2049L General Physics II or	DIN VOAD WOAD - PRIN VOAD - PRIN VOAA WOAD	
PHY 2061 Enriched Physics II with PHY 2049L	PHY X049/X049L or PHY X049C or PHY X044/X049L	

^{*} Minimum GPA for entry into the department for fall 2018 is 3.1. This GPA is subject to change in future years; check the department website.