

Undergraduate Major Map

Catalog Year 2017
College / School Engineering
Major Computer Science - BS
Track / Concentration Software Dsgn and Devel
Career Path Four Year Freshman

Fall Term 2017

Term Hours: 12
Cum GPA: 2

* To declare the Computer Science major student must be MAC2311-Calculus 1 ready.

For detailed information about this policy please visit:

<https://cec.fiu.edu/advising/admission-policy>

* MAC2311 prerequisites: (MAC1140+MAC1114) or MAC1147

UCC Social Science - Group 1 can be used to satisfy the Foundations Global Learning (GL) requirement.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Communication	ENC 1101	Writing and Rhetoric I	3		
UCC Social Science Group One			3		(1) (2) See Endnotes
Core Courses	CGS 1920	Intro to Computing	1		
UCC First Year Experience	SLS 1501	First Year Exper	1		
UCC Mathematics Group One	MAC 2311	Calculus I	4	C	(1) See Endnotes

Spring Term 2018

Term Hours: 13
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Communication	ENC 1102	Writing and Rhetoric II	3		
UCC Mathematics Group Two	MAC 2312	Calculus II	4	C	(1) See Endnotes
Software Track Electives			3		Natural Science Elective. May need to take the lab. (A) See Endnotes
General Electives			3		Strongly Recommended: COP 1000

Undergraduate Major Map

Summer Term 2018

Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes

UCC Arts or Humanities Group 1 can be used to satisfy the GL Foundations requirement (if requirement has not been satisfied).

Term Hours: 6
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Humanities Group One			3		(1) (2) (4) See Endnotes
UCC Arts			3		(1) (2) (4) See Endnotes

Fall Term 2018

UCC Social Science Group 2 can be used to satisfy the GL Foundations requirement (if requirement has not been satisfied).

Term Hours: 15
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Discrete Mathematics	MAD 2104	Discrete Mathematics	3		or COT 3100 - Discrete Structures
UCC Natural Science Group One - PHY2048 or 2053, and PHY 2048L	PHY 2048L	General Phys Lab I	1		(1) See Endnotes
UCC Social Science Group Two			3		(1) (2) See Endnotes
Major Prerequisites	COP 2210	Programming I	4	B-	
UCC Natural Science Group One - PHY2048 or 2053, and PHY 2048L	PHY 2048	Physics W/Calculus I	4		(1) See Endnotes

Undergraduate Major Map

Spring Term 2019

UCC Humanities Group 2 satisfies one GRW. It can also be used to satisfy the GL Foundations requirement (if requirements have not been satisfied).

Term Hours: 14
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Natural Science Group Two - PHY 2049 or 2054, and 2049L	PHY 2049	Physics W/Calc II	4		(1) See Endnotes
Software Track Electives			3		See advisor for list of courses.
UCC Natural Science Group Two - PHY 2049 or 2054, and 2049L	PHY 2049L	General Phys Lab II	1		(1) See Endnotes
UCC Humanities - Group Two			3		Satisfies 1 GRW. (1) (2) (4) See Endnotes
Core Courses	COP 3337	Programming II	3	B-	

Summer Term 2019

Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes

Term Hours: 6
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	ENC 3249	Prof Tech Writing Comp	3		Satisfies 1 GRW. (4) See Endnotes
Software Track Electives			3		Natural Science Elective. May need to take lab. (A) See Endnotes

Fall Term 2019

**Student is strongly encouraged to do an internship. Please contact STEM coordinator for more information.

Term Hours: 15
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CDA 3103	Fund Computer System	3		
Core Courses	CGS 3095	Technology in the Global Arena	3		Satisfies GL Discipline Specific. (2) See Endnotes
Core Courses	COP 3530	Data Structures	3		
Core Courses	COP 4338	Programming III	3		
Introduction to Probability & Statistics	STA 3033	Prob & Stat For Cs	3		

Undergraduate Major Map

Spring Term 2020

**Student is strongly encouraged to do an internship. Please contact STEM coordinator for more information if you have not done it yet.

Term Hours: 15
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CDA 4101	Structure Comp Org	3		
Core Courses	CEN 4072	Fund SW Testing	3		
Core Courses	CNT 4713	Net-centric Computing	3		
Core Courses	COP 4710	Database Management	3		
Core Courses	CNT 4713	Net-centric Computing	3		

Summer Term 2020

**Student should be doing an Internship this summer term. Please contact STEM coordinator for help.

Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes

Term Hours: 6
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CEN 4010	Software Eng I	3		
General Electives			3		Could register COP 3949 Internship course for up to 3 Credits.

Fall Term 2020

Term Hours: 12
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CEN 4021	Software Eng II	3		
Core Courses	COP 4555	Prin Of Prog Lang	3		
Core Courses	COP 4610	Operating Syst Princ	3		
Core Courses	MAD 3512	Theory Algorithms	3		

Spring Term 2021

CIS 4911 Senior Project is recommended to be taken by itself.

Term Hours: 6
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Core Courses	CIS 4911	Senior Project	3		or VIP Course. See advisor for enrollment details.
Software Track Electives			3		See PDA for list of options. (B) See Endnotes

Undergraduate Major Map

General Requirements

Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor

GENERAL UNIVERSITY REQUIREMENTS

See your Panther Degree Audit (PDA) for a real-time update on your academic career progress and additional information on University and major requirements at <http://my.fiu.edu>.

(1) UCC: Students must meet the University Core Curriculum (UCC) requirements. For a full list of UCC courses, see <http://undergrad.fiu.edu/advising/pdfs/ucc-new.pdf> or speak with your advisor. UCC courses must be taken for a letter grade and may not be taken at other institutions without permission from the Dean of Undergraduate Education.

(2) Global Learning: Freshmen entering FIU Summer B 2010 or later must take at least two Global Learning (GL) designated courses at FIU. See <http://goglobal.fiu.edu>. Courses must be:

- 1 Global Learning Foundations (University Core Curriculum) course, which must be taken within the first 60 credits.
- 1 Global Learning Discipline-Specific course (3000/4000 level)

(3) Summer Hours Requirement: All students entering FIU or any university within the State University System (SUS) of Florida with fewer than 60 credit hours are required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a university in the SUS.

(4) Gordon Rule Requirement: All Gordon Rule courses (i.e., UCC Communication, UCC Mathematics, and Gordon Rule with Writing (GRW) courses) must be completed with a minimum grade of 'C'. This requirement must be fulfilled within the first 60 credits. Students are required to complete at least two Gordon Rule with Writing (GRW) courses. UCC Humanities-G2 will satisfy one GRW course and ENC3249 will satisfy the second GRW course.

(5) Foreign Language Requirement for Graduation (FLENT/FLEX): A student who did not complete two years of the same foreign language in high school or at a post-secondary institution must successfully complete 8-10 credit hours of instruction in one foreign language prior to graduation. Exceptions include appropriate CLEP, AP, IB, TOEFL, or transfer credit. Contact your advisor for more information.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of UCC and major requirements at <http://my.fiu.edu>.

COLLEGE OF ENGINEERING AND COMPUTING: Selected Major Requirements

Grades: Students must earn a minimum grade of 'C' in all math, physics, and all major courses and maintain a minimum of a 2.0 cumulative GPA.

(A) Natural Science electives: students are required to take two additional one-semester courses in science for science majors with strong emphasis on quantitative methods.

- Acceptable lower division courses: BSC1010, BSC1011, CHM1045, CHM1046 and GLY1010
- Acceptable upper division courses: Upper division courses that have at least one of the acceptable lower

Undergraduate Major Map

division courses or PHY2048 or PHY2049 as a prerequisite. Please see Panther Degree Audit for a full list of options.

(B) CS Software Track Elective: students must take one elective course. Please see Panther Degree Audit for full list of options.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of College of Engineering and Computing, and major requirements at <http://my.fiu.edu>