

## Cover Sheet: Request 15964

### QUEST 2 for CSE (Changes already integrated; tracking purposes only)

#### Info

Process	Major Curriculum Modify Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Jeremiah Blanchard jblanch@cise.ufl.edu
Created	3/15/2021 9:31:21 AM
Updated	4/23/2021 4:33:44 PM
Description of request	This submission is a PLACEHOLDER for QUEST 2, per request of College of Engineering. Quest 2 has already been integrated into a previously approved version of the CSE program. The entire CSE degree program was updated before the QUEST 2 requests arrived at the departments; the faculty, at advice of committees, integrated QUEST 2 in advance. Therefore, no change to the program is needed. This entry is purely for compliance / process purposes.  Major Degree Changes were approved under - <a href="https://secure.aa.ufl.edu/Approval/reports/15369">https://secure.aa.ufl.edu/Approval/reports/15369</a>

#### Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Computer and Information Science and Engineering 19140000	Christina Gardner-McCune	Heidi can you please push this forward in accordance with the other Quest 2 requests as these are needed by the registrar to be in compliance.	3/15/2021
CSE-Major-Curriculum-TrackChanges-Registrar.docx					3/15/2021
College	Approved	ENG - College of Engineering	Heidi Dublin	approved by HWCOE curriculum committee and Faculty council	4/13/2021
No document changes					
Associate Provost for Undergraduate Affairs	Approved	PV - APUG Review	Casey Griffith		4/23/2021
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			4/23/2021
No document changes					
Office of the Registrar					
No document changes					
Catalog					
No document changes					
Student Academic Support System					
No document changes					
Academic Assessment Committee Notified					
No document changes					
College Notified					
No document changes					

# Major|Modify\_Curriculum for request 15964

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**Submitter:** Christina Gardner-McCune gmccune@ufl.edu

**Created:** 3/15/2021 10:44:39 AM

**Form version:** 2

## Responses

### Major Name

*Enter the name of the major. Example: "Mathematical Modeling"*

Response:  
Computer Science

### Major Code

*Enter the two-letter or three-letter major code.*

Response:  
CSE

### Degree Program Name

*Enter the name of the degree program in which the major is offered.*

Response:  
Bachelor of Science in Computer Science

### Undergraduate Innovation Academy Program

*Is this an undergraduate program in the Innovation Academy?*

Response:  
No

### Effective Term

*Enter the term (semester and year) that the curriculum change would be effective.*

Response:  
Fall

### Effective Year

Response:  
2021

### **Current Curriculum for Major**

Response:

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### **Proposed Curriculum Changes**

*Describe the proposed changes to the curriculum. If the change is to offer the program through UF Online, please explain and attach a letter of support from the Director of UF Online.*

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### **UF Online Curriculum Change**

*Will this curriculum change be applied to a UF online program as well?*

Response:  
No

### **Pedagogical Rationale/Justification**

*Describe the rationale for the proposed changes to the curriculum.*

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### **Impact on Enrollment, Retention, Graduation**

*Describe any potential impact of the curriculum changes on students who are currently in the major.*

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### **Assessment Data Review**

*Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.*

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### **Academic Learning Compact and Academic Assessment Plan**

*Describe the modifications to the Academic Learning Compact (for undergraduate programs) and Academic Assessment Plan that result from the proposed change.*

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### **Catalog Copy**

*Submitter agrees to prepare and upload document showing the catalog copy with the current and proposed curricula edited using the "track changes" feature in Word.*

Response:

Yes

## Computer Science | Herbert Wertheim College of Engineering

- [Overview](#)
- [Critical Tracking](#)
- [Model Semester Plan](#)
- [Academic Learning Compact](#)

Students in the engineering computer science (EG-CSE) program will satisfy the same requirements for general education and obtain the same engineering preprofessional background in mathematics and science as other engineering students. The program contains a strong technical component comprising a set of required courses covering essential areas in computing and a set of technical electives enabling students to deepen their knowledge in chosen areas of computer science and engineering.

In addition, the program includes a set of interdisciplinary electives in an area of the student's choice from anything the university offers. Students may choose an established minor, a predefined track or if nothing meets their needs, they can work with an advisor to develop their own program. Thus, students will not need to wait for an interdisciplinary program to be established; they can create their own.

To answer the demands of industry for employees with both technical competence and the ability to communicate effectively, the program requires communication courses beyond the usual general education requirements for engineering.

### Department Requirements

Students must complete all critical-tracking courses with minimum grades of C in each course and the critical-tracking GPA must be 2.5 minimum. A minimum grade of C is required in all other courses that are prerequisites to a required course: [CDA 3101](#), [COP3502C](#), [COP 3503C](#), [COP 3530](#), [COP 4600](#), and [COT 3100](#) and [MAS 3114](#). In addition, CISE requires all computer science students to maintain a cumulative, upper-division and department grade point average 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 CISE advisor. 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 department.

[Students may opt to take COP 3504C in lieu of COP 3502C and COP 3503C. If elected, students will need to complete an additional 4 credits to complete the degree program.](#)

### Placement

Students who have scored at least a 4 or 5 on the AP Computer Science exam are eligible to start the programming fundamentals sequence with COP 3503C. Students will need to see an advisor in the major to adjust their degree audit.

Critical Tracking records each student's progress in courses that are required for progress toward each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

## Semester 1

- Complete 1 of ~~6~~7 critical-tracking courses with a minimum grade of C within two attempts: [CHM 2045](#) or [CHM 2095](#), [MAC 2311](#), [MAC 2312](#), [MAC 2313](#), [COP 3502C](#), [PHY 2048](#), [PHY 2049](#)
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

## Semester 2

- Complete 1 additional critical-tracking course with a minimum grade of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

## Semester 3

- Complete 2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

## Semester 4

- Complete ~~1~~2 additional critical-tracking courses with minimum grades of C within two attempts
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

## Semester 5

- Complete all ~~6~~7 critical-tracking courses with minimum grades of C in each course within two attempts
- 2.5 GPA required for all critical-tracking courses

- 2.0 UF GPA required

## Semester 6

- Complete [COP 3503C](#) and [COT 3100](#)
- 2.0 departmental GPA required
- 2.0 UF GPA required

## Semester 7

- Complete [COP 3530](#)
- 2.0 departmental GPA required
- 2.0 UF GPA required

## Semester 8

- Complete [COP 4600](#) and [COP 4020](#)
- 2.0 departmental GPA required
- 2.0 UF GPA required
- Students are expected to complete the general education international (GE-N) and diversity (GE-D) requirements. This is often done concurrently with another general education requirement (typically, GE-C, H or S).
- To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.
- *This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.*

### Plan of Study Grid

Semester One		Credits
<u>Select one:</u>		3
<u>CHM 2045</u>	General Chemistry 1 ( <b>Critical Tracking</b> ; Gen Ed Physical Sciences)	-
<u>CHM 2095</u>	Chemistry for Engineers 1 ( <b>Critical Tracking</b> ; Gen Ed Physical Sciences)	-
<u>CHM 2045L</u>	General Chemistry 1 Laboratory (Gen Ed Physical Sciences)	1
<u>EGN2020C</u>	Engineering Design & Society (GE-P)	2
<u>COP 3502C</u>	Programming Fundamentals 1 ( <b>Critical Tracking</b> )	4
<u>ENC 1101</u>	Expository and Argumentative Writing (State Core Gen Ed Composition; Writing Requirement: 6,000 words)	3
<u>MAC 2311</u>	Analytic Geometry and Calculus 1 ( <b>Critical Tracking</b> ; State Core Gen Ed Mathematics)	4

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Quest 1 (Gen Ed Humanities) 3  
Credits ~~7~~13

**Semester Two**

[COP 3503C](#) Programming Fundamentals 2 ~~3~~4  
[COT 3100](#) Applications of Discrete Structures 3  
[MAC 2312](#) Analytic Geometry and Calculus 2 (**Critical Tracking**; Gen Ed Mathematics) 4  
[PHY 2048](#) Physics with Calculus 1 (**Critical Tracking**; State Core Gen Ed Physical Sciences) 3  
[PHY 2048L](#) Laboratory for Physics with Calculus 1 (Gen Ed Physical Sciences) 1  
Credits ~~4~~15

**Summer after Semester Two**

[State Core Social and Behavioral Sciences \(GE-S\)](#) ~~3~~  
[State Core Humanities \(GE-H\)](#) ~~3~~  
[ENC 1101 or ENC 1102 Expository and Argumentative Writing \(State Core GE Composition; Writing Requirement: 6,000 words\)](#) ~~3~~  
~~2~~

**Semester Three**

[COP 3530](#) Data Structures and Algorithm ~~4~~3  
[MAC 2313](#) Analytic Geometry and Calculus 3 (**Critical Tracking**; Gen Ed Mathematics) 4  
[PHY 2049](#) Physics with Calculus 2 (**Critical Tracking**; Gen Ed Physical Sciences) 3  
[PHY 2049L](#) Laboratory for Physics with Calculus 2 (Gen Ed Physical Sciences) 1  
[CDA 3101](#) [Introduction to Computer Organization](#) ~~3~~  
[State Core Gen Ed Social and Behavioral Sciences](#) ~~3~~  
Credits ~~5~~14

**Semester Four**

[CEN 3031](#) Introduction to Software Engineering 3  
[ENC 3246](#) Professional Communication for Engineers (Gen Ed Composition; Writing Requirement: 6,000 words) 3  
[MAS 3114](#) Computational Linear Algebra 3-4  
or [MAS 4105](#) or Linear Algebra 1  
[CIS 4301](#) [Information & Database Systems 1](#) ~~3~~  
Gen Ed Social and Behavioral Sciences with Diversity or International 3  
Credits ~~12-13~~15-16

**Semester Five**

[CDA 3101](#) [Introduction to Computer Organization](#) ~~3~~  
[CIS 4301](#) [Information and Database Systems 1](#) ~~3~~

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<a href="#">COT 4501</a>	Numerical Analysis: a Computational Approach	3
<a href="#">COP 4600</a>	Operating Systems	3
<a href="#">STA 3032</a>	Engineering Statistics	3
<a href="#">UF Quest 2 (GE-S / GE-H / GE-B/P)</a>		3
<a href="#">State Core Gen Ed Humanities with Diversity or International</a>		3
<a href="#">Technical electives</a>		3
<a href="#">Interdisciplinary elective</a>		3
Credits		<del>15</del> 12

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### Semester Six

<a href="#">COP 4600</a>	Operating Systems	3
<a href="#">EEL 3701C</a>	Digital Logic and Computer Systems	4
<a href="#">ENC 1102</a>	Argument and Persuasion (Gen Ed Composition; Writing Requirement: 6,000 words)	3
<a href="#">COP 4020</a>	Programming Language Concepts	3
<a href="#">COP 4XXX</a>	Algorithm Abstraction and Design	3
<a href="#">EGN 4034</a>		4
<a href="#">Interdisciplinary electives</a>		6
Technical electives		6
Credits		<del>17</del> 15

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### Summer After Semester Six

Internship / Co-op (if desired)		0
Credits		0

### Semester Seven

<a href="#">CNT 4007C</a>	Computer Network Fundamentals	4
<a href="#">EGS 4034; or Professional Ethics; or</a>		1; or
<a href="#">CGS 3065</a>	Legal & Social Issues in Computing	3
Technical electives		6
Interdisciplinary electives		5
Credits		13 or 15

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### Semester Eight

<a href="#">CIS 4913C</a>	Integrated Product and Process Design 2 (4EG)	3
or <a href="#">CIS 4914</a>	or Senior Project	
<a href="#">STA 3032</a>	Engineering Statistics	3
Technical electives		3
Interdisciplinary electives		6
Credits		<del>15</del> 14
Total Credits		120

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