

Program Change Request

Date Submitted: 01/20/17 3:57 pm

Viewing: **CSCEBS : Computer Science, Bachelor of Science**

Last approved: 05/09/16 6:49 pm

Last edit: 01/25/17 1:38 pm

Changes proposed by: srh

In Workflow

1. ENGR Dean Initial
2. Provost Initial
3. Director of Program Assessment and Review
4. Registrar Initial
5. Institutional Research
6. CSCE Chair
7. ENGR Curriculum Committee
8. ENGR Faculty
9. ARSC Dean
10. ENGR Dean
11. Global Campus
12. Provost Review
13. University Course and Program Committee
14. Faculty Senate
15. Provost Final
16. Provost's Office-- Documentation sent to System Office
17. Higher Learning Commission
18. Board of Trustees
19. ADHE Final
20. Provost's Office-- Notification of Approval
21. Registrar Final
22. Catalog Editor Final

Approval Path

1. 01/20/17 4:38 pm
ndennis: Approved for ENGR Dean Initial
2. 01/22/17 7:07 am
tmartin: Approved for Provost Initial
3. 01/24/17 4:46 pm
agriffin: Approved for Director of Program

Assessment and Review

4. 01/24/17 5:25 pm
lkulcza: Approved for Registrar Initial
5. 01/25/17 8:32 am
ggunderm: Approved for Institutional Research
6. 02/07/17 10:13 am
gordonb: Approved for CSCE Chair
7. 02/07/17 2:04 pm
rossetti: Approved for ENGR Curriculum Committee
8. 02/07/17 3:41 pm
ndennis: Approved for ENGR Faculty
9. 02/07/17 7:29 pm
jdurdik: Approved for ARSC Dean
10. 02/08/17 9:29 am
ndennis: Approved for ENGR Dean
11. 02/09/17 2:25 pm
kbible: Approved for Global Campus
12. 02/09/17 2:45 pm
tmartin: Approved for Provost Review

History

1. Aug 15, 2014 by crsleaf1
2. Jan 14, 2015 by srh
3. Apr 21, 2015 by srh
4. May 9, 2016 by srh

Catalog Pages Using this Program [Computer Science B.S.](#)
[Computer Science and Computer Engineering \(CSCE\)](#)

Submitter: User ID: crsleaf1
Phone: 575-6036

Academic Level Undergraduate

Select a reason for the proposed change:
CIP Code Change Request--(LON 1C)

Program Status Active

Academic Unit Major/Field of Study

Are you adding, changing or deleting a concentration? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a track? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a focused study? No

Action	Proposed Code	Proposed Name

Effective Catalog Year Fall **2018** ~~2016~~

College, School, Division College of Engineering (ENGR)

Department Code Department of Computer Science and Computer Engineering (CSCE)

Program Code CSCEBS

Degree Bachelor of Science **in Computer Science**

CIP Code **11.0701** ~~11.0101~~ - **Computer Science.** ~~Computer and Information Sciences, General.~~

Program Title Computer ~~Science, Bachelor of~~ Science

Method of Delivery On Campus

Is this program interdisciplinary or use courses from another College? Yes
Select all that apply:
ARSC

Does this change the total hours needed to complete the program? No

Program Requirements, Description and 8-Semester Plan

A degree in computer science provides a wide variety of career choices. Computer science graduates can design, implement, or manage computer systems, as well as adapt computers to new applications. Computer science core courses include the fundamentals of programming concepts, data structures, operating systems, algorithms, formal languages, and database management systems.

The Bachelor of Science programs in Computer Engineering and Computer Science culminate in a capstone project completed in two consecutive semesters. In the first semester, students form teams and develop a project proposal. In the second semester, students develop, implement, and present the final project.

Humanities and social science electives are selected from the University Core Requirements listed in the Catalog of Studies. To satisfy the University Core, all CSCE students are required to take the following 18 hours of humanities/social science courses:

PHIL 3103	Ethics and the Professions (Sp, Su, Fa)	3
	Fine Arts From Category "A"	3
	U.S. History or Government	3
	Social Science	9

The Undergraduate Handbook has a list of approved basic science, mathematics, and technical electives. Any course not included in these lists requires faculty approval.

Computer Science B.S.C.S. Eight-Semester Degree Program

The following sections contain the list of courses required for the Bachelor of Science in Computer Science (B.S.C.S) degree with a suggested sequence below.

Not all courses are offered every semester, so students who deviate from the suggested sequence must pay careful attention to course scheduling and course prerequisites. Students wishing to follow the eight-semester degree plan should see the [Eight-Semester Degree Policy](#) in the Academic Regulations chapter for university requirements of the program.

First Year	Units	
	Fall	Spring
GNEG 1111 Introduction to Engineering I (Sp, Fa)	1	
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa)	3	
CHEM 1103 University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) (Su, Fa)	3	
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)	4	
PHYS 2054 University Physics I (ACTS Equivalency = PHYS 2034) (Sp, Su, Fa)	4	
GNEG 1121 Introduction to Engineering II (Sp, Fa)		1
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) (Sp, Su, Fa)		4
Freshman Science Elective*		4
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa)		3
History/Government Elective		3
Year Total:	15	15

Second Year	Units	
	Fall	Spring
CSCE 2004 Programming Foundations I (Sp, Fa)	4	
CSCE 2114 Digital Design (Sp, Fa)	4	
MATH 2603 Discrete Mathematics (Sp, Su, Fa)	3	
Basic Science Elective With Lab	4	
Social Science Elective	3	
CSCE 2014 Programming Foundations II (Sp, Fa)		4

CSCE 2214 Computer Organization (Sp, Fa)	4
MATH 3103 Combinatorial and Discrete Mathematics (Sp, Fa)	3
Fine Arts Elective	3
Social Science Elective	3
Year Total:	18 17

Third Year**Units****Fall Spring**

CSCE 3193 Programming Paradigms (Sp, Fa)	3
CSCE 3613 Operating Systems (Sp, Fa)	3
COMM 1313 Public Speaking (ACTS Equivalency = SPCH 1003) (Sp, Su, Fa)	3
MATH 3083 Linear Algebra (Sp, Su, Fa)	3
INEG 2313 Applied Probability and Statistics for Engineers I (Sp, Fa)	3
CSCE 3513 Software Engineering (Sp, Fa)	3
CSCE 4523 Database Management Systems (Sp)	3
CSCE Elective	3
PHIL 3103 Ethics and the Professions (Sp, Su, Fa)	3
Free Elective	3
Year Total:	15 15

Fourth Year**Units****Fall Spring**

CSCE 4133 Algorithms (Fa)	3
CSCE 4561 Capstone I (Fa)	1
Two CSCE Electives	6
Two Free Electives	6
CSCE 4323 Formal Languages and Computability (Sp)	3
CSCE 4963 Capstone II (Sp)	3
CSCE Elective	3
Free Elective	3
Social Science Elective	3
Year Total:	16 15

Total Units in Sequence: 126

* Choose between [PHYS 2074](#) University Physics II or [CHEM 1123/CHEM 1121L](#) University Chemistry II and lab

Are Similar Programs available in the area? No

Estimated Student Demand for Program: na

Scheduled Program Review Date: **2017-2018** na

Program Goals and Objectives: na

Learning Outcomes: na

Description and justification of the request:

The CSCE Department is requesting the program name change and the CIP Code change to 11.0701 Computer Science to accurately reflect the definition of the degree. The old CIP Code 11.0101 Computer and Information Sciences, General is too broad a definition (“A general program that focuses on computing, computer science, and information science and systems. Such programs are undifferentiated as to title and content and are not to be confused with specific programs in computer science, information science, or related support services”.) of our degree program. The definition for 11.0701 states “A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations.” Additionally, the diplomas our students receive only state that they received a Bachelor of Science degree and does not mention that the degree was in computer science. With this requested change the degree would become “Bachelor of Science in Computer Science”. Adding the appropriate titles to the diplomas students are awarded would be greatly appreciated by our graduates and future alumni.

The program is accredited by the Computer Accreditation Commission of ABET as BS in Computer Science.

Attached also is LON 1 requesting a change to the name of the degree.

Program reviewer comments

ndennis (01/20/17 10:48 am): Rollback: Lisa Kulczak confirmed you need both LONs (same for MSCS) Make the justification match in both. You should include the fact that this program is accredited by the Computer Accreditation Commission of ABET as BS in Computer Science. You need to provide catalog information for all csce courses in the program per item 11 in LON 1c

agriffin (01/24/17 3:16 pm): Changed effective catalog year from fall 2017 to fall 2018. It is too late to complete the BOT and ADHE approval process in time for catalog copy for fall 2017. Changed degree code from Bachelor of Science to Bachelor of Science in Computer Science and changed program title from Bachelor of Science in Computer Science to Computer Science based advice from Registrar's Office.

agriffin (01/24/17 4:43 pm): Revised LONs to include revisions to program title and degree title. I also incorporated the curriculum into the LON 1. Finally, I changed the effective date to fall 2018 due to the approval timeline.

lkulcza (01/24/17 5:20 pm): Edited degree title information for 8 semester plan header.

lkulcza (01/24/17 5:23 pm): Corrected second reference to degree.

ggunderm (01/25/17 8:32 am): CIP Code approved.

agriffin (01/25/17 1:38 pm): Edited degree code statement on LON 1c.

Uploaded attachments:

[CSCE-undergrad-courses.docx](#)
[CSCEBS - Name Change - Ltr of Notification.docx](#)
[CSCEBS - CIP Code Change - Ltr of Notification.docx](#)

Key: 478