

CSC 15: PROGRAMMING CONCEPTS AND METHODOLOGY I

In Workflow

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Approval Path

1. Thu, 18 Mar 2021 04:14:47 GMT
Anna Baynes (shaverdian): Approved for CSC Committee Chair
2. Thu, 18 Mar 2021 18:35:05 GMT
Nikrouz Faroughi (faroughi): Approved for CSC Chair
3. Fri, 16 Apr 2021 16:36:58 GMT
Gareth Figgess (figgess): Approved for ECS College Committee Chair
4. Fri, 16 Apr 2021 17:03:27 GMT
Kevan Shafizadeh (kevan): Approved for ECS Dean

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Viewing: CSC 15 : Programming Concepts and Methodology I

Last edit: Fri, 16 Apr 2021 16:32:39 GMT

Changes proposed by: Anna Baynes (219700742)

Contact(s):

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Catalog Title:

Programming Concepts and Methodology I

Class Schedule Title:

Program Concept+Method I

Academic Group: (College)

ECS - Engineering & Computer Science

Academic Organization: (Department)

Computer Science

Will this course be offered through the College of Continuing Education (CCE)?

No

Catalog Year Effective:

Fall 2021 (2021/2022 Catalog)

Subject Area: (prefix)

CSC - Computer Science

Catalog Number: (course number)

15

Course ID: (For administrative use only.)

111631

Units:

3

In what term(s) will this course typically be offered?

Fall, Spring, Summer

Does this course require a room for its final exam?

Yes, final exam requires a room

Does this course replace an existing experimental course?

No

This course complies with the credit hour policy:

Yes

Justification for course proposal:

The prerequisite change is to avoid students worried about failing their current course from occupying enrollment. Our current course waitlists are filled.

Course Description: (Not to exceed 80 words and language should conform to catalog copy.)

Programming concepts using an object-oriented programming language. Introduction to methodologies for program design, development, testing, and documentation. Topics include program design, algorithm design, number systems, classes and objects, methods (functions), control structures, arrays, and interactive input/output. Lecture two hours, technical activity and laboratory two hours.

Are one or more field trips required with this course?

No

Fee Course?

No

Is this course designated as Service Learning?

No

Does this course require safety training?

No

Does this course require personal protective equipment (PPE)?

No

Does this course have prerequisites?

Yes

Prerequisite:

CSC 10, or programming experience in a high-level programming language. Not currently enrolled in CSC 15.

Prerequisites Enforced at Registration?

Yes

Does this course have corequisites?

No

Graded:

Letter

Approval required for enrollment?

No Approval Required

Course Component(s) and Classification(s):

Discussion
Laboratory

Discussion Classification

CS#04 - Lecture /Recitation (K-factor=1 WTU per unit)

Discussion Units

2

Laboratory Classification

CS#13 - Technical Activity/Laboratory, involving business machines (K-factor=1.3 WTU per unit)

Laboratory Units

1

Is this a paired course?

No

Is this course crosslisted?

No

Can this course be repeated for credit?

No

Can the course be taken for credit more than once during the same term?

No

Description of the Expected Learning Outcomes: Describe outcomes using the following format: "Students will be able to: 1), 2), etc."

Students completing this course will be able to

1. create well-structured computer programs to solve small problems using procedural decomposition and abstraction, selection, iteration, built-in libraries, one-dimensional arrays and text-based input and output;
2. construct a simple class definition, with one or two fields, including a constructor and methods that perform simple field manipulation; and
3. employ good programming habits including design with pseudocode, use of a symbolic debugger, iterative enhancement, test-driven design, simple documentation, and conventional programming style.

Assessment Strategies: A description of the assessment strategies (e.g., portfolios, examinations, performances, pre-and post-tests, conferences with students, student papers) which will be used by the instructor to determine the extent to which students have achieved the learning outcomes noted above.

LO 1-3 will be assessed with homework assignments and examinations

Is this course required in a degree program (major, minor, graduate degree, certificate?)

Yes

Has a corresponding Program Change been submitted to Workflow?

No

Identify the program(s) in which this course is required:**Programs:**

BS in Computer Science

BS in Computer Engineering

Does the proposed change or addition cause a significant increase in the use of College or University resources (lab room, computer)?

No

Will there be any departments affected by this proposed course?

No

I/we as the author(s) of this course proposal agree to provide a new or updated accessibility checklist to the Dean's office prior to the semester when this course is taught utilizing the changes proposed here.

I/we agree

University Learning Goals**Undergraduate Learning Goals:**

Intellectual and practical skills

Is this course required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)?

No

GE Course and GE Goal(s)

Is this a General Education (GE) course or is it being considered for GE?

No

Please attach any additional files not requested above:

CSC015_ABET_Syllabus.docx

Key: 1046