

CSC 60: INTRODUCTION TO SYSTEMS PROGRAMMING IN UNIX

In Workflow

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Approval Path

1. 2026-03-11T18:38:44Z
Abeer Abdel Khaleq (abeer.abdelkhaleq): Rollback to Initiator
2. 2026-03-11T21:11:01Z
Abeer Abdel Khaleq (abeer.abdelkhaleq): Rollback to Initiator
3. 2026-03-16T21:24:18Z
Abeer Abdel Khaleq (abeer.abdelkhaleq): Approved for CSC Committee Chair
4. 2026-03-16T21:40:58Z
Jinsong Ouyang (jouyang): Approved for CSC Chair
5. 2026-04-17T16:57:46Z
Tongren Zhu (tongren.zhu): Approved for ECS College Committee Chair
6. 2026-04-17T22:30:11Z
Behnam Arad (arad): Approved for ECS Dean

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Viewing: CSC 60 : Introduction to Systems Programming in UNIX

Last edit: 2026-04-17T16:55:29Z

Changes proposed by: Peng Kang (223029105)

Contact(s):

Name (First Last)	Email	Phone 999-999-9999
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Catalog Title:

Introduction to Systems Programming in UNIX

Class Schedule Title:

Intro System Program Unix

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 2027 (2027/2028 Catalog)

Subject Area: (prefix)

CSC - Computer Science

Catalog Number: (course number)

60

Course ID: (For administrative use only.)

111791

Units:

2

Changes to a course's units impact any related programs. As a result, a corresponding change must also be submitted for those programs

Is the ONLY purpose of this change to update the term typically offered or the enforcement of existing requisites at registration?

No

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

Fall, Spring

Does this course require a room for its final exam?

Yes, final exam requires a room

This course complies with the credit hour policy:

Yes

Justification for course proposal:

The proposed change reduces CSC 60 from 3 units to 2 units. This revision is necessary to eliminate duplicate content that overlaps with CSC 139. A review of the current syllabus identified several topics that are already comprehensively covered in CSC 139.

By removing the overlapping material, CSC 60 will focus exclusively on its distinct learning objectives. The removed content will continue to be fully delivered in CSC 139, ensuring that students receive complete and thorough coverage of the material without unnecessary repetition.

In addition, reducing CSC 60 to 2 units provides greater flexibility in students' academic planning. With the adjusted unit load, students will be able to take CSC 35 concurrently in the same semester. Under the current 3-unit structure and content overlap, students are required to complete CSC 35 before enrolling in CSC 60, creating a longer and more restrictive course sequence. The proposed revision allows students to progress through the curriculum more efficiently without compromising academic rigor or learning outcomes.

Course Description: (Not to exceed 90 words and language should conform to catalog copy.)

Features of the C language commonly used in systems programming, application to systems programming in a UNIX environment. Topics include C preprocessor macros, I/O, bit-manipulation facilities, file permissions, shell script programming, make files and source code control, basic system calls for I/O operations, pointers and dynamic memory allocation, libraries and relocation and linking concepts including assembler handling of symbol tables. Prior knowledge of a C like programming language is presumed.

Are one or more field trips required with this course?

No

Fee Course?

No

Is this course designated as Service Learning?

No

Is this course designated as Curricular Community Engaged 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 20 and CSC 35; CSC 35 may be taken concurrently

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

Discussion Classification

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

Discussion Units

2

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 and Assessment Strategies:

List the Expected Learning Outcomes and their accompanying Assessment Strategies (e.g., portfolios, examinations, performances, pre- and post-tests, conferences with students, student papers). Click the plus sign to add a new row.

	Expected Learning Outcome	Assessment Strategies
1	Develop well-structured, procedurally oriented programs in C.	Assignments Exams
2	Manage a multi-user, time-sharing operating system – UNIX/Linux.	Assignments Exams
3	Develop system-level program code to run on Unix/Linux platforms.	Projects Exams

Attach a list of the required/recommended course readings and activities:

CSC60_ReadingActivities.docx

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 (General Computer Science)

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:

Competence in the disciplines
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:

CSC60 Syllabus.docx
CSC60_LongVersion.docx

Reviewer Comments:

Abeer Abdel Khaleq (abeer.abdelkhaleq) (Wed, 11 Mar 2026 18:38:44 GMT): Rollback: Hi Peng, I think you need to put the assessment criteria for the course outcomes.

Abeer Abdel Khaleq (abeer.abdelkhaleq) (Wed, 11 Mar 2026 21:11:01 GMT): Rollback: Please put outcomes separately along with their corresponding assessment plan.

Key: 1118