ECE1101

UCONN
UNIVERSITY OF CONNECTICUT

Electrical Engineering Tools
ECE Department

Syllabus – Summer 2020

Excluding materials for purchase, syllabus information may be subject to change. The most up-to-date syllabus is located within the course in HuskyCT.

Course and Instructor Information

Course Title: Electrical Engineering Tools
Credits: ECE1101
Format: Online
Professor: John Chandy

Email: john.chandy@uconn.edu
Telephone: 860-486-5047
Office Hours/Availability: Tu 9a-10a, Th 10a-11a on WebEx (https://uconn-cmr.webex.com/meet/joc02012)

Course Materials

"Introduction to C" PDF in HuskyCT Resources folder

Other suggested resources: cprogramming.com, *The C Programming Language* by Kernighan & Ritchie

All required software is available on HuskyCT

Course Description

An introduction to C programming for electrical engineers

Course Objectives

By the end of the semester, students should be able to:

1. Perform binary to decimal to hexadecimal conversions.
2. Write and demonstrate a simple program using the C compiler.
3. Write programs using various C features including functions, loops, and conditionals.
4. Write programs using C to perform file I/O and interactive user input.
5. Resolve or debug programming errors.

Course Outline (and Calendar if Applicable)

Module	Dates	Topics	"Intro to C" sections
1	5/11-5/13	Number representations, types and operations	1.1 1.2 1.3
2	5/13-5/16	Functions, conditionals, loops	1.4 1.5 1.6
3	5/16-5/19	Macros, globals, arrays, strings	1.7 1.8 1.9
	5/20	Mid-term exam	
4	5/19-5/23	Pointers and files	1.10
5	5/23-5/26	Data structures	1.10 1.11
	5/29	Final exam	

Course Requirements and Grading

Summary of Course Grading:

Course Components	Weight
Homeworks	30%
Quizzes	10%
Midterm Exam	30%
Final Exam	30%

Assessments

Homeworks due 5/13, 5/17, 5/21, 5/24, 5/27
Quizzes on 5/15, 5/18, 5/22, 5/25
Exams on 5/20 and 5/29

Grading Scale:

Undergrad

Grade	Letter Grade	GPA
93.5-100	A	4.0
90.0-93.4	A-	3.7
86.5-89.9	B+	3.3
83.5-86.4	B	3.0
80.0-83.4	B-	2.7
76.5-79.9	C+	2.3
73.5-76.4	C	2.0
70.0-73.4	C-	1.7
66.5-69.9	D+	1.3
63.5-66.4	D	1.0
60.0-63.4	D-	0.7
<60	F	0.0

Due Dates and Late Policy

All course due dates are identified above, and due times will be specified in HuskyCT. Deadlines are based on Eastern Time; if you are in a different time zone, please adjust your submittal times accordingly. *The instructor reserves the right to change dates accordingly as the semester progresses. All changes will be communicated in an appropriate manner.*

Late policy: No late submissions accepted.

Feedback and Grades

I will make every effort to provide feedback and grades a few days after submission. To keep track of your performance in the course, refer to My Grades in HuskyCT.

Weekly Time Commitment

You should expect to dedicate 15-20 hours a week to this course. This expectation is based on the various course activities, assignments, and assessments and the University of Connecticut's policy regarding credit hours. More information related to hours per week per credit can be accessed at the Online Student website.

Student Authentication and Verification

The University of Connecticut is required to verify the identity of students who participate in online courses and to establish that students who register in an online course are the same students who participate in, complete the course activities and assessments, and receive academic credit. Verification and authentication of student identity in this course will include:

1. Secure access to the learning management system using your unique UConn NetID and password.
2. Respondus Monitor with Lockdown Browser for online exams

Assessment/Exam Proctoring

The midterm and final exams will be administered using Lockdown Browser with Respondus Monitor. You must have access to a webcam and a reliable Internet connection in order to use this exam service. See https://irc.uconn.edu/wp-content/uploads/sites/77/2020/03/Student-Guide-for-LockDown-Browser.pdf for instructions.

Student Responsibilities and Resources

As a member of the University of Connecticut student community, you are held to certain standards and academic policies. In addition, there are numerous resources available to help you succeed in your academic work. Review these important standards, policies and resources, which include:

- The Student Code
  - Academic Integrity
  - Resources on Avoiding Cheating and Plagiarism
- Copyrighted Materials
- Credit Hours and Workload
- Netiquette and Communication
- Adding or Dropping a Course
- Academic Calendar
- Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships
- Sexual Assault Reporting Policy

Students with Disabilities

The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

Blackboard measures and evaluates accessibility using two sets of standards: the WCAG 2.0 standards issued by the World Wide Web Consortium (W3C) and Section 508 of the Rehabilitation Act issued in the United States federal government." (Retrieved March 24, 2013 from Blackboard's website)

Software/Technical Requirements (with Accessibility and Privacy Information)

The software/technical requirements for this course include:

- HuskyCT/Blackboard (HuskyCT/ Blackboard Accessibility Statement, HuskyCT/ Blackboard Privacy

Policy)
- Adobe Acrobat Reader (Adobe Reader Accessibility Statement, Adobe Reader Privacy Policy)
- UConn Skybox or Horizon VM Client
- Dedicated access to high-speed internet with a minimum speed of 1.5 Mbps (4 Mbps or higher is recommended).
- WebCam

For information on managing your privacy at the University of Connecticut, visit the University's Privacy page.

NOTE: This course has NOT been designed for use with mobile devices.

Help

Technical and Academic Help provides a guide to technical and academic assistance.

This course is completely facilitated online using the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the Help Center. You also have 24x7 Course Support including access to live chat, phone, and support documents.

Evaluation of the Course

Students will be provided an opportunity to evaluate instruction in this course using the University's standard procedures, which are administered by the Office of Institutional Research and Effectiveness (OIRE).

Additional informal formative surveys may also be administered within the course as an optional evaluation tool.