CprE 185 Introduction to Computer Engineering and Problem Solving I

Department of Electrical and Computer Engineering
Fall 2016
Sections W-BB

Catalog Listing: Introduction to Computer Engineering. Project-based examples from computer engineering. Individual interactive skills for small and large groups. Computer-based projects. Solving engineering problems and presenting solutions through technical reports. Solution of engineering problems using a programming language. (2-2) Cr. 3.

Prerequisites: Credit or enrollment in Math 141

After taking the course student will be able to:

- Design and write computer programs to solve Computer Engineering problems
- Work in small teams to develop solutions to engineering problems
- Write technical reports detailing engineering solutions and evaluating them

List of Topics:

- Problem Solving and Learning Styles
- Computer Architecture and Languages
- Data Types, Variables, and Operators
- Flow Control
- Functions
- Arrays and Pointers
- Input/Output
- Data Structures

Lecture: Coover 2245
8-9 T/Th

Instructor: Tom Daniels,
2214 Coover
Phone:
515/294-8375
Email:

daniels@iastate.edu **** Best way to communicate with me

Lab: Coover 2018

Lab Section	Day	Time (All labs are 1 Hour, 50 minutes Long)
W	W	12:10
X	F	10
Y	F	12:10
Z	F	2:10
AA	W	2:10
BB	W	4:10

Office Hours: Dr. Daniels Consult Blackboard
Teaching Assistants Consult Blackboard

Textbook: Mandatory Textbook from Zyante.com. Purchase the textbook code for YOUR SECTION in the bookstore.

Please contact info@zyante.com for support. Subscriptions are normally non-refundable. However, full or partial/prorated refunds may be available to students in some cases, such as when dropping a class. Contact info@zyante.com for more information about the text subscription. Additionally, renewal options are available if you have to retake the course.

18/12/2013

Websites: In addition to the textbook site given above, Blackboard will be used (http://bb.its.iastate.edu). We will use tophat.com for in class quizzes.

Attendance: Exams will be structured so that regular lecture attendance will be required to score over 90%.

Grading: Your grade for the course is based upon three exams, a number of labs, and homeworks/programming practice. The grade is determined as follows
35% exams, 5% in-class quiz participation, 10% programming practices, 15% completion of assigned textbook online exercises, and 35% lab scores

The letter grades will be assigned based on the ranges below:

A	92-100,	B	80-91	C	70-79
D	60-69	F	0-59		

The range may be lowered to your benefit, but will not be increased. I do give plus and minus grades as well. These are spread across the ranges above evenly. Grade cutoffs may be lowered to your benefit.

Homework: Homework and labs are due on the date stated when assigned. Homework received late will not be accepted unless an agreement is made prior to the due date.
Homework must be either typewritten or very neatly handwritten. I do not have time to decipher your homework, so make them clear. Illegible homework will not be graded.

Homework will be turned in "in lab," not electronically unless otherwise specified.
Programming Practice will be turned in on Blackboard.
Reading performance will be directly downloaded from the textbook website.

Final Exam: Our final exam will be as listed at the Registrar's final exam schedule.
http://www.registrar.iastate.edu/students/exams/fallexams

Academic Dishonesty: The class will follow Iowa State University's policy on academic dishonesty. Anyone suspected of academic dishonesty will be reported to the Dean of Students Office.
www.dso.iastate.edu/ja/academic/misconduct.html

Disability Accommodation: Iowa State University complies with the Americans with Disabilities Act and Sect 504 of the Rehabilitation Act. If you have a disability and anticipate needing accommodations in this course, please contact (instructor name) to set up a meeting within the first two weeks of the semester or as soon as you become aware of your need. Before meeting with (instructor name), you will need to obtain a SAAR form with recommendations for accommodations from the Disability Resources Office, located in Room 1076 on the main floor of the Student Services Building. Their telephone number is 515-294-7220 or email disabilityresources@iastate.edu. Retroactive requests for accommodations will not be honored.

Dead Week: This class follows the Iowa State University Dead Week policy as noted in section 10.6.4 of the Faculty Handbook http://www.provost.iastate.edu/resources/faculty-handbook.

Harassment and Discrimination: Iowa State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon race, ethnicity, sex (including sexual assault), pregnancy, color, religion, national origin, physical or mental disability, age, marital status, sexual orientation, gender identity, genetic information, or status as a U.S. veteran. Any student who has concerns about such behavior should contact his/her instructor, Student Assistance at 515-294-1020 or email dso-sas@iastate.edu, or the Office of Equal Opportunity and Compliance at 515-294-7612.

Religious Accommodation: If an academic or work requirement conflicts with your religious practices and/or observances, you may request reasonable accommodations. Your request must be in writing, and your instructor or supervisor will review the request. You or your instructor may also seek assistance from the Dean of Students Office or the Office of Equal Opportunity and Compliance.

Contact Information: If you feel that any of your rights as a student have been violated, email academicissues@iastate.edu

28/12/2013