CEG 2170 - Introduction to C Programming for Engineers
Fall 2015

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Office: 336 Russ Engineering Center **Office hours:** MW 3:30-4:30, TR 2:00-3:00,
Phone: 775-5108 and by appointment

Lab TA: Sunethra Thimmapuram, 316 Russ, thimmapuram.2@wright.edu,
office hours W 11:30 am-1:00 pm and Thursday 10:50 am-12:20

Course description: Basic engineering problem solving using the C programming language. Topics include loops, selection, input/output, files, functions, arrays, complex variables, pointers, structures, and dynamic memory. Students will learn how to approach solving problems in engineering and science; how to develop algorithms, using advanced techniques such as recursion, searching, sorting and linked lists to solve those problems; and how to implement those algorithms in the C language.

Textbook: Problem Solving and Program Design in C, 8th ed, Jeri R. Hanly and Elliott B. Koffman, Pearson. (ISBN- 13: 9780134243948, ISBN-10: 0134243943)

Software: Code::Blocks EDU-Portable, an open source, free, configurable programming environment for C. Free download from http://codeblocks.codecutter.org/. Download the zip file, extract it, and save it to a flash drive to use the program in any lab, no installation necessary. Run the program with cblauncher.exe.

Pilot/campus email: http://pilot.wright.edu   Pilot will be used in this course for submitting labs and projects and for accessing course materials and grades. It is the student's responsibility to check the Pilot site, as well as his/her WSU email, for course announcements, updates to project requirements, etc.

Grading: Lab assignments: 15%; Projects: 35%; Exams: 50% (15% each for exam 1 and exam 2; 20% for the final exam). All exams will be closed book, closed notes. A one page 8.5 x 11 note sheet (handwritten or printed) will be allowed for each exam. No calculators allowed. **No makeup exams** are given unless there is a verifiable emergency. The grading scale for the course is [90-100] A; [80-90) B; [70-80) C; [60-69) D; [0-60) F.

Students with disabilities: Any student with a disability must register with the Office of Disability Services to determine what accommodations, if any, are appropriate. The student must also inform the instructor of the special accommodations needed as soon as possible.

Lab Facilities: Open labs are available for your use in the Russ Engineering Center (rooms 152B and 152D). Russ labs are open 24/7 and you should have swipe-card access to the front and back entrances of Russ. Although you may find it convenient to work at home, make a note of these lab locations in the event that you have a problem with your personal computer (hard drive crash, inability to print, no internet connection, etc.). Because lab facilities are so widely available at Wright State, personal computer issues are not an acceptable excuse for turning in late work.

Help Room: The Department of Computer Science and Engineering maintains a help room, staffed by upper-level students, for students in introductory programming classes. The help room is located in Russ 314. Help room hours will be posted on the course web site once they are determined.

In addition to the policies explained below, labs and projects must follow the requirements given in the *Style Requirements* document on Pilot. Read this document carefully before submitting your work!

Lab Policy (CEG2170L): The topic for each week's lab activity will be drawn from the lecture for that week, so it is important that students attend class, read the textbook, and practice the material before coming to the lab. The key to succeeding in the lab portion of this course is to be prepared. While the lab assignments are designed so that a well-prepared student can complete the work within the two-hour lab session, they will be made available on Pilot at the beginning of each week to allow students to get an early start. At a minimum, you should look over the lab ahead of time to be sure you understand the assignment and have the knowledge to complete it. The lab TA will answer short questions during the lab session; students who feel they need more extensive help will need to see the instructor or the lab TA during office hours prior to the lab session. Lab assignments are due at the end of the lab session; work may be submitted to the dropbox early, but no late work will be accepted. No makeup work will be accepted, and all lab grades will be factored into your final course grade.

Project due dates: Seven projects, spaced approximately 2 weeks apart, will be assigned. Projects will be due on selected Tuesdays at 11:59 pm. The dropbox on Pilot lists the specific dates. Project requirements will be posted on Pilot at least ten days before they are due. Late projects will be accepted up to 24 hours after the due time/date but will incur a 10% grade penalty. No work will be accepted after 24 hours from the due date.

All labs and projects must be submitted via the Dropbox on Pilot. Be sure you upload the files and then click submit. If you do not receive an email confirmation then your work was not properly submitted. Be sure to allow sufficient time to submit your work before the dropbox closes. Personal computer issues/loss of data/not allowing enough upload time are not valid justifications to merit an extension of the deadline.

Exams: Two midterms and one comprehensive final exam will be given during the semester. The specific dates are listed on the course schedule. Information regarding the format of the exams and specific chapters/topics to be covered will be discussed in class during the lecture prior to the exam. A study guide with this information will also be available on Pilot. **IMPORTANT NOTE: STUDENTS MUST HAVE THEIR WRIGHT-1 PHOTO ID WITH THEM ON THE DAY OF THE EXAM!!**

Academic misconduct: All graded work in this course (weekly labs, programming projects, and exams) is to be completed individually. **Sharing your work or copying someone else's work will result in a 0 for the assignment(s) and a formal Academic Integrity Violation will be submitted.** The university policy on academic misconduct can be found at http://www.wright.edu/students/judicial/integrity.html