CS2303 Systems Programming Concepts   C14

Course Information {January 15, 2014}

Professor Bob Kinicki, rek@cs.wpi.edu, FL135, phone: 831-6116
Course Web page: http://web.cs.wpi.edu/~rek/Systems/C14/C14.html
Teaching Assistants (TAs): Zhenhao Lei, Hao Wan
Student Assistants(SAs): Victor Andreoni, Chris Botaish, Kristen Brann, Matt Heon, Fred Silberberg

Office Hours: see course web page
Texts: [required] *C How to Program*, Seventh Edition, Deitel and Deitel.

This course introduces students to systems programming concepts and advances their knowledge of data structures. This is a **non-beginner** programming course where programs will be written in C and C++. The course exposes the student to the Linux system. Since this course was designed to include **large-scale** programming, an emphasis is placed on **non-trivial** programming tasks. The first **three** programs will be done individually by each student. Students will be assigned to two-person teams for programs 4 and 5 based on performance up to that point.

Students are responsible for **any** information transmitted during the lecture and the lab-sessions!

Class Email and Communication

Students need to check their email at least **daily**. You will be added to the class email list, **cs2303-all@cs.wpi.edu** , automatically based on official registration information. The TAs, SAs and I will use this mailing list to send information to the class. You can send email to the entire class using this group alias. This course does NOT use MyWPI at all! Specific questions about the course should be sent to **cs2303-staff@cs.wpi.edu** and NOT to an individual TA or SA. Emails sent to this alias will be monitored by the TAs and/or SAs on-call that day (Sunday – Friday). They will do their best to promptly answer your detailed questions. I will handle all policy issues.

Programming Assignments

http://web.cs.wpi.edu/Help/documentation-standard.html specifies the CS Department Documentation standards. Documentation rules will be discussed in class prior to the first program due date. Every function or subroutine **must** include the author of the function and include references for routines 'essentially' taken from a book or web page.

You must use the CCC machine 'turnin' to turn in all the programming assignments and labs for this course (see http://web.cs.wpi.edu/Help/turnin.html). The turnin names are prog1, prog2, …, prog5 and lab1,lab2, …, lab5, respectively. You only are allowed one turnin per assignment. Please include a README file with each assignment to provide information to assist the TA in grading your programs. All programs must compile and execute on one of the WPI CCC machines. You are encouraged to develop your programs on WPI Linux machines because historically students have had difficulties porting their programs from other operating systems and because there will be test files available only on the CCC machines. Turned-in programs that do **not** successfully compile will not be graded and will receive a grade of **0.** Programs **without comments** will not be graded and **will receive a grade of 0.**

Late Programming Assignment Penalties

Note – all late penalties are taken off the top maximum score before the assignment grading begins.

Programs that are late time ✝ where:

0 minutes $<$ ✝ ≤ 1 day	**lose 10% off the top**
1 day $<$ ✝ $\leq$ **2** days	**lose 30% off the top**
2 day $<$ ✝ ≤ 3 days	**lose 50% off the top**
3 days $<$ ✝	**the grade is zero!**

Weekend days (Saturday and Sunday) are **excluded** from the count of late days. NOTE: Programs are due at the **exact time specified.** Hence, the late time, **✝,** given above is measured from **time specified with the due date.**

Course Grading Points

To pass this course you must have a passing grade on the programming assignments **AND** on the exams.

Program 1	14 Pts	**First Exam**	85 Pts
Program 2	38 Pts		
Program 3	42 Pts		
Program 4	46 Pts		
Program 5	65 Pts	**Final Exam**	100 Pts
Programming Total	205 Pts	**Exam Total**	185 pts
Lab Points	30 Pts		
Subjective Points*	30 Pts		

Total Course Points   450 Pts

* Subjective points come from the opinions of the instructor, the TAs and SAs with respect to class participation, any homework and lab assignments, and effort seen through interaction with the TA/SA/instructor on programming assignments and studying for exams. Please be sure to introduce yourself during office hours if you want to receive subjective points from the course assistants. Note well - subjective points are **not guaranteed at all!**