

CS110-002 Programming and Problem Solving

(Winter 2012)

Calendar Description: An introduction to problem-solving techniques, the fundamental concepts of programming, and the software design process. Topics include data types, control structures, scope rules, functions, files, and the mechanics of running, testing and debugging. Problems will be drawn from various science disciplines. Note: Students in CS major who have mastered the course material in CS 110 through other means are eligible to write CS 110 bypass exam.

Prerequisites: Math B30 and C30.

Credit Hours: 3 (3 lecture hours and 2 lab hours per week)

Instructor: Dr. JingTao Yao, Office: CW308.18, Email: jtyao@cs.uregina.ca,
Office hours: Tuesdays and Thursdays: 2:30 pm - 4:00 pm or by appointment

Class time and location: Tuesdays and Thursdays: 1:00 pm - 2:15 pm (Classroom Building 112)

Lab sessions: These compulsory labs are held in CL 135.4 (Classroom Building), 7 19-seat sessions (sessions: 81 – 87).

Final Exam: 2:00 pm - 5:00 pm, Tuesday, Apr 24, 2012

Textbook: Nell Dale, and Chip Weems, *Programming and Problem Solving with C++ (Comprehensive or Brief)*, 5/e, Jones and Bartlett, 2010.

Course website: <http://www2.cs.uregina.ca/~jtyao/Teaching/CS110>

Lab website: <http://www.cs.uregina.ca/Links/class-info/110/index.html>

Office Hours for Lab Instructors: <http://www.cs.uregina.ca/Dept/OfficeHours/c119.html>

Grading system:

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| 1. Assignments (5) | 20% |
| 2. Labs | 10% |
| 3. Midterm Tests (2) | 20% |
| 4. Final Examination | 50% |
| 5. Instructor Discretion +/- | 5% |

Tests and Exam: There are no make-up tests and exam. If you cannot sit for midterm tests with approved reasons, the grade will be determined based on other evaluating items and/or attach to final. There is no reason for missing the final exam.

Attendance: You are expected to attend all scheduled lectures. If you cannot attend a lecture, it is your responsibility to catch up the contents. Little time is available to assist those who have missed relevant classes. Statistics show that students attend lectures regularly get high grades on exams. That is a fact that you should remember when making your daily decisions.

Supplemental instruction (SI) offers free out-of-class study groups to help you succeed in this class. There will be three one-hour weekly sessions and you may choose to go to one, two, or all three sessions.

Chapters to be covered: Chapters 1-10 and 11.1.

Important dates:

January 5, 2012 (First lecture, Thursday)
January 11, 2012 (The add deadline)
January 18, 2012 (The dropping deadline, No record)
January 20, 2012 (Assignment 1 due, Friday)
February 3, 2012 (Assignment 2 due, Friday)
February 9, 2012 (Midterm Test 1, Thursday)
February 20-24, 2012 (Winter break, no classes)
March 2, 2012 (Assignment 3 due, Friday)
March 8, 2012 (Midterm Test 2, Thursday)
March 15, 2012 (Withdrawing deadline, Grade of W)
March 16, 2012 (Assignment 4 due, Friday)
March 30, 2012 (Assignment 5 due, Friday)
April 10, 2012 (Last lecture, Tuesday)
Apr 24, 2012 (Final Exam, Tuesday)

Assignments:

1. **SAVE THE TREES!** All assignment questions are available online at UR Courses and you must submit your assignments electronically to UR Courses (<https://urcourses.uregina.ca/>).
2. There will be two sections, short answer questions and programming questions, for each assignment. For short answer questions, you may use an editor such as Notepad, WordPad or MS Word. The file should be named as Assignment*n*.txt, Assignment*n*.doc or Assignment*n*.docx where the *n* is the assignment number.
3. You should submit two files (the source code and the result) for each programming question in your assignments. All program source code should be named as AnQm.cpp where n is the assignment number and m is the question number. The screenshot of your results should be named as AnQm.jpeg.
4. All assignments are due at 10:00pm on the due date. Partially completed assignments are acceptable but LATE assignments are NOT accepted. All uploaded files will be automatically submitted after cut-off time. If you are unable to complete an assignment due to health problems, for instance, a medical certificate is required before the assignment will be accepted. This applies to other unusual cases.
5. If you have any questions or complaints about the marking of your assignment, you should email me your question or complaint within one week from the assignment return day. The assignment will be reassessed by the marking team.

Important notes:

1. The dates, schedule, requirements etc. are tentative. The online version should be the latest one. Please check for changes.
2. Email communications with the instructor should be sent from URCourses. In addition, you may use your U of R account. Class announcements will be sent to your U of R account. There will be no reply to any free web-based email accounts, hotmail, gmail, or yahoo, for instance, and limited communications to some commercial ISPs (e.g. Access, Sasktel, etc.) or government email accounts.
3. Please read the sections of the 2011-2012 University of Regina Undergraduate Calendar dealing with Academic Regulations, especially those regulations regarding academic integrity and plagiarism. Cheating will not be tolerated. Co-operation on programming assignments is generally encouraged, but it must be limited to verbal discussion of concepts not code or any other written documentation that is submitted for grading. Copying of assignments is plagiarism. Knowingly allowing an assignment to be copied will also be treated as plagiarism. The consequence of plagiarism or any other form of cheating may range from a zero grade, to failure in the class, to expulsion from the university. Please note that the Dean of your faculty will be informed of any such incident, as per university regulations.