

### General Information

Welcome to ECE 244! The goal of this course is to provide you with a solid foundation in programming, using a modern object-oriented programming language. The lectures will cover topics such as: classes and objects, information hiding, inheritance, exception handling, fundamental data structures (lists, trees, etc.), big-O complexity analysis, and testing and debugging. The laboratory assignments emphasize the use of object-oriented programming constructs in the design and implementation of reasonably-sized programs.

### Instructors

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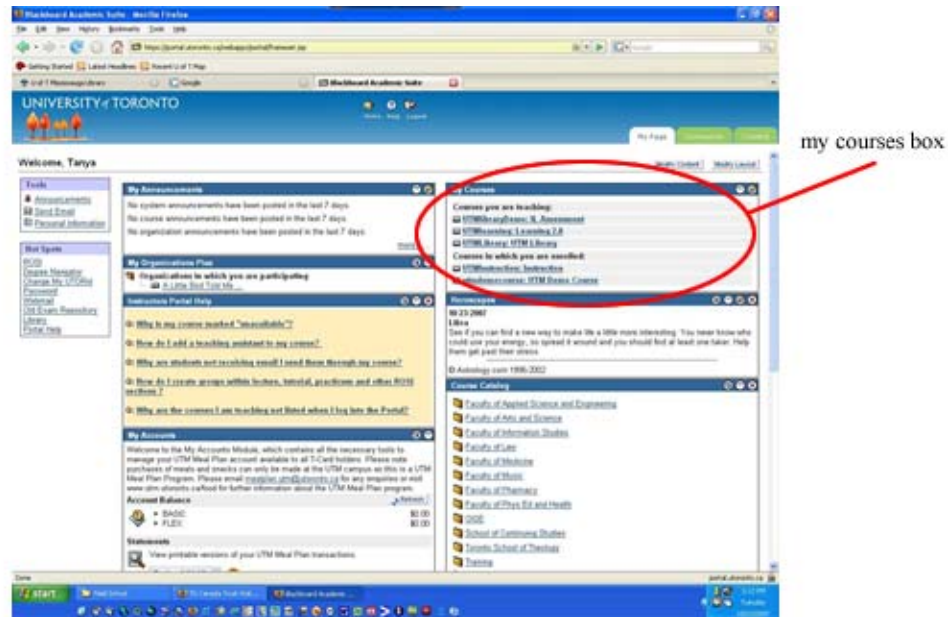
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### Course Web Site

Information on ECE 244, including important announcements, a copy of this handout, copies of assignment handouts, and course marks may be found on the web site for the course. Please visit the web site on a regular basis for up-to-date information. The web site also provides a bulletin board where you can post questions regarding the course. Instructors and TAs will monitor the bulletin board on a regular basis.

To access the course website, go to: <http://portal.utoronto.ca> and log in using your UTORid and password. If you need information on how to activate your UTORid and set your password for the first time, please go to [www.utorid.utoronto.ca](http://www.utorid.utoronto.ca).

Once you have logged in to the portal using your UTORid and password, look for the **My Courses** box, where you'll find the link your course websites. If you don't see the course listed here but you are properly registered for the course in ROSI, wait 48 hours. If the course does not appear, come to the library for help.



## Email

All UofT students are required to have a valid UTORmail email address. You are responsible for ensuring that your UofT email address is properly entered in the ROSI system.

**Forwarding** your utoronto.ca email to a Hotmail, Gmail, Yahoo or other type of email account is not advisable. In some cases, messages from utoronto.ca addresses sent to Hotmail, Gmail or Yahoo accounts are filtered as junk mail, which means that emails from your course instructor may end up in your spam or junk mail folder.

## Textbook and Other References

The following book is required, and it will serve as the main textbook for the course, which is available at the University of Toronto bookstore:

Walter Savitch, *Problem Solving with C++*, **SIXTH EDITION**, Addison Wesley, 2007.

Pointers to other reference material will be posted on the course's web site.

## Timetable

The following is the timetable for the course.

	Weekday	Hours	Location
Lecture session 1 (Stumm)	Monday	2-3pm	GB 220
	Tuesday	10-11am	MC 254
	Thursday	11-12noon	MC 252
Lecture session 2 (Gibson)	Monday	1-2pm	BA 1170
	Wednesday	9-10am	GB 221
	Thursday	11-12noon	MP 102
Lecture session 3 (Aboelsaadat)	Tuesday	9-10am	BA 1170
	Thursday	9-10am	BA 1190
	Friday	9-10am	MC 252
Tutorial 1	Tuesday	2-3pm	BA 2165
Tutorial 2	Tuesday	2-3pm	BA 2175
Tutorial 3	Wednesday	2-3pm	BA 2165
Tutorial 4	Wednesday	2-3pm	BA 2175
Tutorial 5	Thursday	2-3pm	BA 2145
Tutorial 6	Thursday	2-3pm	GB 304
Tutorial 7	Thursday	10-11am	BA 2165
Tutorial 8	Thursday	10-11am	BA 2175
Lab 1	Tuesday	3-5pm	SF 1013
Lab 2	Thursday	2-4pm	SF 1013
Lab 3	Monday	10-12noon	SF 1013
Lab 4	Tuesday	11-1pm	SF 1013

## Laboratory Assignments

The lab assignments consist of number of programming exercises using the C++ programming language. A handout describing each assignment will be made available on the web site for the course. The lab assignments do take a substantial amount of your time. Hence, **it is important to start as early as possible on your assignments and to avoid procrastination.**

All the labs will be in room SF1013. While lab access and use are possible any time, you are strongly encouraged to regularly attend your scheduled lab period; a Teaching Assistant (TA) will be available to answer any questions and offer help during these periods.

Please consult with the handout titled "Laboratory Information" for more details on the lab assignments, their schedule, and other related information.

## Tutorials

The tutorials are intended to revisit material already covered in the lectures in a more interactive setting, where questions can be asked frequently and freely. The tutorials will also elaborate on laboratory assignments. Attending the tutorials is strongly encouraged, but is not mandatory since no new material will be introduced.

### Topic Outline

The following is a list of topics, and the corresponding reference. Please keep in mind that the list of topics is tentative and is intended to serve only as a general guide.

Topic	Reference
Review of C++; compilation	Chapters 1-9, 12
Pointers, structures, and arrays	Chapter 9
Classes and objects	Chapter 10, 11
Recursion	Chapter 14
Inheritance	Chapter 15
Exception handling	Chapter 16
Linked lists and trees	Chapter 13
Complexity of algorithms	Chapter 17

### Marking and Evaluation

There will be several programming assignments during the term. There will also be one midterm test scheduled for October 23, 2008, 6:00pm – 8:00pm. The seating assignment for the midterm will be announced in class and posted on the course's web site. A final exam will be given during the final exams' period. The composition of the final mark is as follows:

Labs	25%
Test	30%
Final Exam	45%