This syllabus is a brief summary of the most important administrative information for CISC 124. For complete details, you must read to the course web page: http://research.cs.queensu.ca/home/cisc124/2015w/home.html. The course also has a Moodle area. Students must read the "news" and "general" Moodle forums regularly, as they will contain important information.

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Lecture Times: (slot 2)  
Mondays 9:30-10:20  
Wednesdays 8:30-9:20  
Thursdays 10:30-11:20  
All of our lectures will be in Kinesiology 100.  
There will be no lectures during Reading Week.

Labs: Each student must sign up for and attend one of the following labs:  
Lab 002: Mondays 3:30-5:20 in Jeffrey 155  
Lab 003: Mondays 11:30-1:20 in Jeffrey 157  
Lab 004: Mondays 3:30-5:20 in Jeffrey 157  
There will be no labs during the first week of classes or during Reading Week.

The labs are times for you to work on your assignments and practice problems with help easily available. There are no points on the marking scheme for attending labs and nothing you have to hand in during the labs. However, if you don't bother to go to labs and then complain that you found the assignments too difficult I will have very little sympathy!

Pre-requisite: CISC 121

Pre or Co-requisite: CISC 102 or any first-year course in Mathematics.

Calendar Description:  
Introduction to object-oriented design, architecture, and programming. Use of packages, class libraries, and interfaces. Encapsulation and representational abstraction. Inheritance. Polymorphic programming. Exception handling. Iterators. Introduction to a class design notation. Applications in various areas.

Purpose: This course is designed to take students from the basic programming done in CISC 121 into the world of object-oriented programming. Besides providing more practice in programming, it introduces many useful concepts about organizing data and functionality.

Learning Outcomes:
By the end of the course you should be able to:

• write a Java program including multiple classes  
• create and use families of related classes (inheritance)  
• create and use abstract classes and interfaces  
• create and use inner classes (both static and dynamic)  
• understand simple UML class diagrams  
• use Java packages  
• understand and write simple GUI programs using the Swing package  
• understand and write Java programs which catch and throw exceptions  
• understand and write Java programs which use iterators
**Required Textbook:** The textbook for this course is *Introduction to Java Programming* by Y. Daniel Liang. This book comes in several versions; the "brief version" is enough for this course and and 10th edition of the brief version is available in the campus bookstore. If you happen to have access to one of the longer versions or to an earlier edition that's also fine. There will be a few additional online readings assigned as well as the readings in this text.

I realise that some of you have studied Java before and may have a different Java text, or that you have the opportunity to buy or borrow a copy of a different Java text. This is also acceptable, but you'll have to search your text for material related to each topic in the course. Not every text covers things in the same order.

Whatever text you use, you **must read your textbook as assigned**. You can't expect to pick up everything you need for this course just from lectures.

**Course Organization:** This course is divided into several topics. For most topics there will be assigned readings from the textbook or other sources and questionnaires on Moodle for students to answer questions about those readings. Lectures will not review the readings in detail but will focus on examples to illustrate the techniques and ideas in the readings and to demonstrate good programming techniques. Students will be given several marked assignments as well as many unmarked practice problems to work on.

**Course Schedule:** Available on the web page. Students will have adequate warning of all quizzes and assignment due dates.

**Marking Scheme:**

The basic marking scheme is as follows:

- assignments: 10%
- quizzes (average of the best 2 of 3): 44%
- final exam: 44%
- Moodle questionnaires: 2%
- total: 100%
- + up to 2 possible bonus points

However, students must achieve a passing grade on their quizzes and final exam (at least 44 out of the 88 points allocated to those marks) to pass the course. For more details about how you will be evaluated, please see the course web page.

**Quizzes:** At the end of the term I will ignore your lowest quiz mark and use the average of the other two. (So each of your best two quiz marks is worth 22% each.) More details:

- If you have to miss a quiz for any reason, that's the one you drop.
- If you miss a quiz during the term, I will not give you a make-up for it, even if you missed the quiz for a legitimate reasons such as an illness. One of the reasons for the "best 2 out of 3" policy is to spare students and myself the logistical problems associated with make-up quizzes.
- If you miss more than one quiz during the with a legitimate reason for each one, please talk with me and we'll figure out a fair accommodation. However, if you miss one quiz with a good reason such as illness and another for a bad reason such as forgetting to set your alarm clock, you're out of luck.
- If you get high marks on the first two quizzes and are happy with using the average of those two quizzes you are welcome to skip the third quiz on purpose.
- The final exam will be cumulative. So even though you may miss one of the quizzes you're not off the hook for learning that part of the course material. Some of the material covered on each quiz will re-appear on the exam.

**Disability Accommodations:**

Queen's University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact the Disability Services Office (DSO) and register as early as possible. For more information, including important deadlines, please visit the DSO website at [http://www.queensu.ca/hcids/ds/](http://www.queensu.ca/hcids/ds/).

*If you have a disability and require accommodations in this course, please see the course web site for more specific information.*


**Academic Integrity:** For the full statement of Queen's Academic Integrity policy, please see Arts & Science Academic Regulation 1 at [http://www.queensu.ca/artsci/academic-calendars/regulations/academic-regulations/regulation-1](http://www.queensu.ca/artsci/academic-calendars/regulations/academic-regulations/regulation-1). You are responsible for familiarizing yourself with these principles, which apply to all Queen's courses.

More details about how Academic Integrity applies to this course may be found on the course web site. Please be warned that this instructor takes Academic Integrity quite seriously and WILL make formal charges if violations are detected. These charges will affect your mark and possibly your status at Queen's.

**Tips For Doing Well in CISC 124:**

- Read all of the assigned readings carefully and on time.
- Attend lectures and labs regularly.
- Get an early start on the assignments; don't leave them until the last minute.
- Work on practice problems in addition to the assignments. Practice problems for many of the topics in this course will be suggested on the web site and the textbook contains problems as well. Even though you don't get marks for practice problems, practicing is the best way to make sure you understand the course material and can apply it on your quizzes and exam, which are marked.
- When you have a question or don't understand something, don't be shy about asking! Help is available for you; this is part of what you're paying tuition for. *Everyone* has questions from time to time. The web site contains many suggestions about ways to get help.