

People

Instructor	M. Jason Hinek (contact info)
Tutorial TAs	See cuLearn (tba)
Marking TAs	See cuLearn (tba)
Office hours	See course webpage (tba)

Course Information

Classroom	University Centre; Room UC231
Class Times	Days: Monday and Wednesday Time: 6:05pm - 8:55pm
Course Website	https://www.scs.carleton.ca/content/1006-1406-s16
Course Forum	https://www.carleton.ca/culearn/
cuLearn	https://www.carleton.ca/culearn/

Calendar Description

A second course in programming emphasizing problem solving and computational thinking in an object-oriented language. Topics include abstraction, mutable data structures, methods, inheritance, polymorphism, recursion, program efficiency, testing and debugging.

Prerequisites: One of COMP1405/1005, ECOR1606, or SYSC1005.

- ★ **Note:** COMP1406 is a prerequisite for both COMP2401, COMP2402 and COMP2406. However, there is a further condition that you must receive at least a C- in COMP1406 in order to proceed to any of COMP2401, COMP2402 or COMP2406.

Topics

Topics will include all of

- Abstraction
- Mutable data structures
- Methods (functions)
- Object Oriented Programming (OOP)
 - Inheritance
 - Polymorphism
- Recursion (recursive functions and recursive data types)
- Program efficiency
- Testing
- Debugging

Java will be used for the entire semester.

Evaluation

A	Assignments	25%	6 assignments	[0-25]
T	Tutorials	10%	5 tutorials (starting the week of July 4)	[0-10]
Q	Quizzes	5%	6 pop quizzes between July 4 and Aug 14	[0-5]
P	Project	10%	Due the last week of class	[0-10]
M	Midterm Exam	15%	July 27 (in class)	[0-15]
F	Final Exam	35%	tba	[0-35]

★ **Note:** You must pass the weighted average of your midterm (M) and final exam (F) in order to pass the course. Your final grade will be determined using the following

```

if (M+F >= 25) then
    final grade is A+T+Q+P+M+F

otherwise
    final grade is min( 2*(M+F), A+T+Q+P+M+F )

```

Tutorials There are five tutorials. In tutorials you will work in groups of two (pair programming) and your grade will be based on attendance and progress on tutorial material. For a given tutorial, you will not receive full marks if you are not present for most of the tutorial or if you are not working on the tutorial material.

Quizzes There will be six pop quizzes during the semester. One in each week of the semester (starting with the first week and ending the penultimate week).

Project You will work in a teams of 2-4 people for the project. You will present your project (demonstrate your program and answer questions) in the last week of classes (Monday's class or Tuesday's tutorial).

Assignments There will be five assignments in this course. All assignments are due at **5:30 pm** on the specified due date. **No lates will be accepted.**

Assignment 1	5%	due Monday, July 11
Assignment 2	5%	due Monday, July 18
Assignment 3	5%	due MOnday, July 25
Midterm	15%	Wednesday, July 27
Assignment 4	5%	due Tuesday, August 2
Assignment 5	5%	due Monday, August 8
Project	10%	Presented Aug 15 or 16

★ **Appeals:** For assignments, you must contact the TA that marked your assignment within one week from the date that the assignments are returned (posted to cuLearn). If a rubric was posted for the assignment, you must complete it yourself (with justification for the problems you are contesting) and send/bring it to the TA with your appeal.

For midterm appeals, you must fill out a form (that details why you think you deserve more marks for specific questions), attach it to your midterm and return it to the instructor no later than two weeks from the date the exams are returned to the class.

Resources

There will be no required textbook for this course. However, there are several supplementary resources available to you.

- Oracle has a good introductory tutorial for many aspects of Java.
 - <http://docs.oracle.com/javase/tutorial/>
- Previous offerings of COMP1406/1006 have used these extensive course notes.
 - <http://people.scs.carleton.ca/~lanthier/teaching/COMP1406/notes.html>

In addition, there are some resources provided by the course.

- The course webpage contains useful information such as announcements and will be where the assignments are posted.
 - <https://www.scs.carleton.ca/content/1006-1406-s16>

Important Dates

A google calendar for the course (class times, tutorial times, office hours, etc.) can be found at <https://calendar.google.com/calendar/embed?src=comp1406.carleton%40gmail.com&ctz=America/Toronto>

See the University Calendar for all important dates:

<http://calendar.carleton.ca/undergrad/undergraduniversity/academicyear/>

July 4 Classes begin

July 5 Tuesday's Tutorials begin (1006)

July 7 Thursday's Tutorials begin (1406)

August 1 **Civic holiday, University closed**

August 15 Last class (most likely used for Project demonstrations)

Collaboration Policy

- ★ You may collaborate at the conceptual/problem-solving level for assignments but you must write your own solutions. Plagiarism detection software will be used to test your code.

Tutorials and the project are meant to be done collaboratively. Each member must contribute to receive grades.

Undergraduate Academic Advisor

The Undergraduate Advisor for the School of Computer Science is available in Room 5302C HP, by telephone at 520-2600, ext. 4364 or by email at undergraduate_advisor@scs.carleton.ca.

The undergraduate advisor can assist with information about prerequisites and preclusions, course substitutions/equivalencies, understanding your academic audit and the remaining requirements for graduation. The undergraduate advisor will also refer students to appropriate resources such as the Science Student Success Centre, Learning Support Services and the Writing Tutorial Services.

University Policies

Full academic regulations are found in the University's calendar ([link](#)). Some excerpts are below.

Academic Integrity

Every student should be familiar with the Carleton University student academic integrity policy. A student found in violation of academic integrity standards may be awarded penalties which range from a reprimand to receiving a grade of F in the course or even being expelled from the program or University. Some examples of offences are: plagiarism and unauthorized co-operation or collaboration. Information on this policy may be found in the Undergraduate Calendar.

Plagiarism is presenting, whether intentional or not, the ideas, expression of ideas or work of others as one's own. Plagiarism includes reproducing or paraphrasing portions of someone else's published or unpublished material, regardless of the source, and presenting these as one's own without proper citation or reference to the original source.

In cases where an investigation determines that a violation of the Academic Integrity Policy has occurred, sanctions may be applied by the Faculty Dean, the Provost and Vice President (Academic), or by Senate Executive.

Sanctions may include but are not limited to completion of a remediation process, a written reprimand, assignment of a failing grade, withdrawal from a course, suspension from a program, suspension or expulsion from the university.

Students with Disabilities

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision.

If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than

two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable).

After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable) at

<http://www2.carleton.ca/pmc/new-and-current-students/dates-and-deadlines/>

Religious Obligations

Carleton University accommodates students who, due to religious obligation, must miss an examination, test, assignment deadline, laboratory, or other compulsory event. The University has a Senate-approved policy on religious accommodation that forms part of its Human Rights Policy, available at:

<http://www2.carleton.ca/equity/>

Accommodation will be worked out directly and on an individual basis between the student and the instructor(s) involved. Students should make a formal written request to the instructor(s) for alternative dates and/or means of satisfying requirements. Such requests should be made during the first two weeks of any given academic term, or as soon as possible after a need for accommodation is known to exist, but in no case later than the penultimate week of classes in that term.

Pregnancy Obligation

Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details visit the Equity Services website: <http://www2.carleton.ca/equity/>

Medical Certificate

The following is a link to the official medical certificate accepted by Carleton University for the deferral of final examinations or assignments in undergraduate courses. To access the form, please go to

<http://www.carleton.ca/registrar/forms/>
