COMP 1001: Introduction to Computers for the Arts and Social Sciences

Course Outline for Fall 2013 (subject to change, last updated September 5 2013)

Course Details

11:35 am - 12:55 pm
Tuesdays and Thursdays
Kailash Mital Theatre, Southam Hall

No class on October 3 due to a conference, or October 29/31 for Fall Break.

https://culearn.carleton.ca/moodle/course/view.php?id=24714

Instructor

Gail Carmichael
Office: 5326 HP
gail_c@scs.carleton.ca

Office hours:
3:00 pm - 4:30 pm
Tuesdays and Thursdays
5326 HP

Teaching Assistants

Office hours will be held in 1170 HP starting September 9.

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Office Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdolreza Shirvani</td>
<td><a href="mailto:abdolrezashirvani@cmail.carleton.ca">abdolrezashirvani@cmail.carleton.ca</a></td>
<td>Tuesday 9am-10am Friday 9am-10am</td>
</tr>
<tr>
<td>Najmeh Taleb</td>
<td><a href="mailto:NajmehTaleb@cmail.carleton.ca">NajmehTaleb@cmail.carleton.ca</a></td>
<td>Wednesday 1pm-3pm</td>
</tr>
<tr>
<td>Qiang Wang</td>
<td><a href="mailto:QiangWang4@cmail.carleton.ca">QiangWang4@cmail.carleton.ca</a></td>
<td>Monday 11am-1pm</td>
</tr>
</tbody>
</table>
Course Description

This course is an introduction to computing. You will learn about what computer science is and how it relates to you as an arts or social science student. The goal is to understand on a deeper level how computation works and how to solve problems with it. Throughout the course we will explore the answers to at least eight general questions from this perspective. In addition to demonstrations and live coding during lectures, we will make use of Poll Everywhere questions and peer instruction to ensure you understand each concept before moving on.

Learning to program can be challenging, but there is every reason to believe that you can succeed.

Learning Objectives

By the end of the course, you will:

1. Develop an appreciation of computer science.
   a. Understand what computer science is.
   b. See how computer science connects to the arts and social sciences.
   c. Learn how computer science can help you.

2. Develop computational thinking skills.
   a. Be able to formulate problems in a way a computer can solve them and understand the efficiency of the solutions.
   b. Learn how to organize, analyze, and represent data with abstract models and simulations.
   c. Learn to solve problems with the programming language Python.

3. Develop an understanding of useful software.
   a. Learn how to make the most of word processing software.
   b. Gain advanced skills working with spreadsheets, including applying programming knowledge to formulas.
c. Learn a software package particularly useful to your field.

Assessment

You must pass each component listed below in order to pass the course.

<table>
<thead>
<tr>
<th>Assignments (best 4 of 5)</th>
<th>30%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm (November 7)</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam (date usually announced in October)</td>
<td>40%</td>
</tr>
</tbody>
</table>

Assignments

You may work together at the conceptual level, but you must work independently when writing your responses or code.

Late policy: Late assignments will not be accepted. The lowest assignment mark will be dropped, allowing you to miss an assignment without penalty. If you must miss more than one assignment for a documented medical reason, please get in touch with me.

Final Exam

The time and place as well as the format of the final exam will be announced later in the term. Do not make travel plans until the dates are known as no advance exams will be given.

Textbooks

There are no required textbooks for this course. There will be notes made available and links to online resources given through cuLearn.

Software and Hardware Requirements

We will be using Python 2.7 for this course, which is freely available. All SCS lab machines have version 2.7.3 installed, and you should have no problem downloading and using Python 2.7.5.
Python comes with a graphical interface called IDLE, which we will also be using.

We will make use of Poll Everywhere in class. This software works a bit like clickers, but does not require a dedicated clicker device. Instead, you only need a mobile device or laptop. You can submit your responses via text message or through the web interface. Please bring your device of choice to class.

**SCS Computer Accounts**

Any student taking an SCS course qualifies to have an SCS account. SCS accounts can be created at the following URL: [http://www.scs.carleton.ca/newacct](http://www.scs.carleton.ca/newacct). SCS students can access one of the designated labs for your course.

The labs are operational 7 days a week 24 hours per day, please be advised that the building will be closed overnight, Mon. - Fri. 23:00 - 8:00 and on weekends from 17:00 - 8:00. Technical support is available in room HP5161 Monday to Friday from 9:00 until 17:00.

All SCS account related information is accessible at the following URL: [http://www.scs.carleton.ca/nethelp](http://www.scs.carleton.ca/nethelp).

**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**

**Student Academic Integrity Policy**

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

As defined by Senate, "plagiarism is presenting, whether intentional or not, the ideas, expression of ideas or work of others as one's own". Such reported offences will be reviewed by the office of the Dean of Science.

Unauthorized Co-operation or Collaboration

_You may collaborate at the conceptual / problem-solving level of assignments and tutorials, but collaboration is strictly prohibited when writing code, which must always be your own._

_Senate policy states that "to ensure fairness and equity in assessment of term work, students shall not co-operate or collaborate in the completion of an academic assignment, in whole or in part, when the instructor has indicated that the assignment is to be completed on an individual basis". Please refer to the course outline statement or the instructor concerning this issue._

Academic Accommodations for 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 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/
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