Class Schedule

<table>
<thead>
<tr>
<th>Classroom:</th>
<th>TBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class times:</td>
<td>Tues. and Thurs. 10:00 – 11:30</td>
</tr>
<tr>
<td>Course web site:</td>
<td><a href="http://www.scs.carleton.ca/~claurend/Courses/COMP3004/F13/">www.scs.carleton.ca/~claurend/Courses/COMP3004/F13/</a></td>
</tr>
</tbody>
</table>

Instructor Information

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Office</th>
<th>Telephone</th>
<th>Email</th>
<th>Office Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Christine Laurendeau</td>
<td>5376 HP</td>
<td>613-520-2600 x1253</td>
<td><a href="mailto:claurend@scs.carleton.ca">claurend@scs.carleton.ca</a></td>
<td>Tues. and Thurs. 13:30 – 15:00</td>
</tr>
</tbody>
</table>

Teaching Assistants

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Office Hours</th>
<th>Room Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joshua Beltramin</td>
<td><a href="mailto:joshuabeltramin@cmail.carleton.ca">joshuabeltramin@cmail.carleton.ca</a></td>
<td>TBD</td>
<td>4115 HP</td>
</tr>
<tr>
<td>Stephanie Hurtado</td>
<td><a href="mailto:stephaniehurtado@cmail.carleton.ca">stephaniehurtado@cmail.carleton.ca</a></td>
<td>TBD</td>
<td>4115 HP</td>
</tr>
</tbody>
</table>

Course Description

Theory and development software systems. This course will discuss computer ethics. Possible topics include: software development processes, requirement specification, class and scenario modeling, state modeling, UML, design patterns, traceability. Students are to complete a team project using a CASE tool.

Topics Covered

The course will cover the following topics, although some material may be omitted due to time constraints:

- Introduction to Software Engineering
  - Software engineering at a glance
  - Team project (team organization, project description)
  - UML notation
- Software Development Life Cycle
  - Requirements analysis (requirement specification, traceability, scenarios, use cases, functional&dynamic models)
  - High-level system design (design patterns, subsystem decomposition, interfaces, architectural styles)
  - Detailed object design (reuse, object model, contracts and constraints)
  - Implementation (model transformation, refactoring, forward/reverse engineering, optimizations)
  - Testing (test planning, usability testing, unit testing, integration testing, system testing)
- Software Management
  - Project management (planning, organizing, risk management)
  - Software life cycle models (activity-centered, entity-centered)
  - Configuration management (change management, version management, system building, release management)
- Professional Ethics (covered as a series of class discussions)
  - Professionalism
  - Software engineering code of ethics
  - Case studies

Prerequisites

COMP 2404

Textbook(s)

Evaluation

Students will be evaluated in this course according to the following measures:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Phase #1</td>
<td>25 %</td>
<td>Oct. 17, Nov. 5</td>
</tr>
<tr>
<td>Project Phase #2</td>
<td>25 %</td>
<td>Nov. 21, Dec. 9</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>15 %</td>
<td>Tues. Oct. 22</td>
</tr>
<tr>
<td>Final exam</td>
<td>35 %</td>
<td>TBD</td>
</tr>
</tbody>
</table>

Evaluation Note

This course involves four (4) project deliverables, organized into two phases. In order to pass the course, students must obtain a passing grade for each phase, and a passing grade on the exam component of the course. Every team member is expected to contribute equally in each deliverable, and individual marks will be adjusted for each student based on his/her contribution.

Important Dates

Design reviews of Phase #1 will take place in class on Nov. 5 and Nov. 7. Each team is required to present their design at that time. Demo Day will be on Dec. 10, and every team will demonstrate their working prototype on that day.

Attendance

Course notes will be made available, but these will only contain the outlines for the lectures. The mid-term and final exams will cover all the material presented during the lectures and in the class discussions. Students are expected to attend all lectures in order to pass the course.

Collaboration Policy

Collaboration on the project is restricted to members of the same team, which will consist of no more than four (4) students. Inter-team collaboration is strictly disallowed.

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

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/datesand-deadlines/

Religious Obligation

Write to the instructor 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 the instructor 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