

# Carleton University, School of Computer Science

## 95.3002 Compiler Construction, Winter 2017

**Times/Instructor:** Thurs 8:30am (3 hours), 240 Tory Building **W.R. Lalonde** (5<sup>th</sup> floor Herzberg)

**Workshop:** Wed 6pm (3 hours) 4<sup>th</sup> Floor HP Gaming Lab

**Course Description:** This course will provide students with several important skills:

- (a) A better understanding of parser/scanner constructors since we will be implementing one.
- (b) A better understanding of compilers since we will be implementing a compiler.

**Course Goals:** To develop the tools needed to write a compiler for a simple language and to write a compiler using those tools.

**Text Books:** None.

**Notes:** Available from Wilf LaLonde's web site.

**References:** Any compiler book that makes use of LR(k) technology.

**Laboratory:** TENTATIVE: Wed/Thurs 6pm (3 hours) 4<sup>th</sup> Floor Gaming Lab in HP. Help starting the assignment. Watch others work. See status of other people's work...I will personally be there and will also stay late as long as you do. I can also be there on other days if this conflicts with your timetable.

**Assignments 4:** Assignments will be marked personally with a letter grade. The assignments should be handed in at the start of the class in one folder on a USB memory card (or CD). The folder should include a Microsoft WORD or TEXT file of the form "Jim Smith #6592211.docx" which allows the author to be determined without opening the file. The file itself should contain an e-mail address and phone number where you can be reached if there is a problem and should contain details about what to do run and test your code. Keep in mind that sometimes the folder itself can be corrupted.

PS: Assuming a small class, it would be useful to see a demo of your work the night before.

**Working groups:** Students are expected to build their own individual tools and compiler. No working in groups.

**Marking Scheme:**

Assignments	60%
Exam	40%

## **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 cooperate 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](mailto: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>