

CS1003 – Programming and Problem Solving

COURSE OUTLINE Section FR01A – Fall 2014-15

<http://www.cs.unb.ca/courses/cs1003/fr01a> or CS1003 on D2L

Class Times:	WF 8:30-9:20
Class Room:	HC13
Tutorial:	M 8:30-9:20 (locations TBA)
Lab:	T 9:30-11:30 (GC112, GD118, ITD415)
Instructor:	Dr MacIsaac
Office:	ITD 418
Office Hours:	M1:30-2:30 T8:30-9:30, W9:30-10:30
Email:	dmac@unb.ca (tag: {CS1003})

Course Description

[4ch]

This course is an introductory problem solving and programming course. It is taught within the context of Matlab so content focuses on developing skills necessary to become proficient problem solvers with Matlab. However, to demonstrate diversity in computer tools, other platforms for problem solving are also introduced (such as Excel). Disciplined problem solving and programming methodologies are emphasized and practiced through laboratory and tutorial exercises and regular assignments. Attention to design aspects of programmed solutions is stressed and assessed in this course.

Attending Lectures, Labs and Tutorials

Attendance Policy: Attendance at all lectures is expected. Students who miss more than 7 lectures for any reason jeopardize their success in the course. Students are responsible for all material presented and all announcements made in lectures and tutorials. If you have to miss a lecture or tutorial for any reason, it is your responsibility to obtain any information missed.

Supervised weekly labs are held so that students may work on lab exercises with assistance from other students, a teaching assistant, and/or the instructor. Students are encouraged to work on lab activities outside the supervised time-slots and to come to supervised lab sessions when they need help with the exercises. **Students are expected to complete all of the labs and are required to submit any 4 from labs 1-6.** Ongoing statistics indicate that students who complete at least 4 labs/term are well positioned for success (we take attendance to track these statistics for you).

Use of mobile devices (cell phones, laptops, tablets etc.) during lectures is normally permitted for lecture-related activities only, and users may be required to terminate use if it becomes distracting to others.

Email Etiquette

You are enrolled in a professional program, and must remember that all communications is to be conducted in a professional manner. Always use your UNB email address when emailing an instructor. For this class, the subject must contain the tag {CS1003}. When writing an email, the subject line must be clear and appropriate. Punctuation, spelling, and greetings must all be professional, and sign the email with your full name and student number. Unprofessional emails will not be acknowledged.

Marking Scheme

Assignments	10%	Best 4 of 6
Test 1	10%	Wed Oct 1 st
Test 2	10%	Wed Oct 29 th
Lab Exam	35%	*Tue Nov 18 th
Final Exam	35%	TBA
Logbook	Up to -10%	

*2nd attempt is scheduled for Tue Nov 25th and deferred date is scheduled for Tue Dec 2nd

- ▶ **Students must submit at least 4 acceptable lab exercises (score of 2) by the Lab Submission Deadlines in order to be eligible to take the lab exam (No Exceptions).**
- ▶ **Students must submit 2 acceptable problem exercises (score of 2) by the Problem Submission Deadlines in order to be eligible to take the class tests (No Exceptions).**
- ▶ **Students must pass the lab exam to pass the course (No Exceptions).** Students will be given two tries to pass the lab exam. Students who miss the labs exam test dates will normally fail the course. In legitimate cases (illness, bereavements etc.) reported to the registrar, students must make arrangements with the instructor to take the lab exam on the predefined scheduled deferral day.
- ▶ Both tests and the final exam will be closed-book. A test missed for legitimate reasons (illness, bereavement etc.) must be reconciled through extra weighting on the final examination.
- ▶ Since multiple chances are already built into the grading of assignments, normally no reconciliation accommodations will be provided for missed or late submissions. In extreme legitimate cases (extended illness, multiple bereavements etc.) missed assignments must be reconciled through extra weighting on the final examination.
- ▶ Students must keep all assessed work in order to resolve discrepancies about their progress.
- ▶ Numerical Grade Conversion:

A+	90-100	B+	76-79	C+	60-69	D	40-49	F	<40
A	85-89	B	73-75	C	50-59				
A-	80-84	B-	70-72						

Behavior

Details regarding plagiarism can be found **in the Appendix** of this document. It is your responsibility to ensure that you understand these details. If you do not, seek assistance from your instructor.

Of special note in this class is that plagiarism includes “**knowingly representing as one’s own work any idea of another.**” Collaboration on assignments is beneficial to a point that does not violate the authorship of the work and cross over into plagiarism (‘copying’). Students ‘working in groups’ on assignments should be careful that the answers they submit are indeed their own. Good advice: ‘Think together, write apart’.

Reference Materials

- ▶ H. Moore, MATLAB for Engineers, 3rd edition, Prentice Hall, 2011. - *Recommended*