Programming and Problem Solving

COURSE OUTLINE UNBetween – Summer 2017 (AUG 14-18)

http://www.ece.unb.ca/macisaac/UNBetween

	Section 1A
Class Times:	MWF 10:30-11:20
Class Room:	GWC127
Tutorial:	ТВА
Lab:	Th 2:30-5:00 B17
Instructor:	Dr MacIsaac
Office:	ITD 418
Office Hours:	By appointment
Email:	<pre>dmac@unb.ca (tag: {UNBetween)</pre>
TA:	Aeron Tabor
Email:	jason.chang@unb.ca (tag: {UNBetween)

Course Description

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 exercises and regular assignments.

Attending Lectures, Labs and Tutorials

Students are responsible for all material presented and all announcements made in lectures. If you have to miss a lecture for any reason, it is your responsibility to obtain any information missed.

Supervised weekly labs are held so that students may work on laboratory exercises with assistance from other students, a teaching assistant, and/or the instructor. Students are encouraged to work on these exercises outside the supervised time-slots and to come to supervised lab sessions when they need help with the exercises.

Students who do not attend labs and tutorials regularly may NOT seek assistance from the instructor or teaching assistants during alternate hours.

Marking Scheme

Assignments:	10%	(Best 4 from 6)
Lab Exam:	35%	(must get perfect to pass course)
Tests (2):	20%	(Friday July 25 th – in class; Friday August 29 th in class)
Final Exam:	35%	
Log Book:	(up to) -10%	

- Both the midterm exam and the final exam will be closed-book
- A score less than 50% in the lab exam may result in failure of the course
- Numerical Grade Conversion:

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

- All cases of cheating and/or plagiarism will be reported to the university. This includes copying assignments. Penalties can include failure of the activity in question or failure of the course (see pages 41-42 of the 2008-09 Undergraduate Calendar).
- ➤ A recent decision by the Faculty of Engineering means that serious cases of general misconduct will be reported to the university. As outlined in the UNB undergraduate calendar, page 33, the Board of Governors of the University has approved a set of general regulations which aim to foster a university environment which is:

"conducive to the development of the whole person...All members of the university community have the right to work and/or study in an environment which affords them respect and dignity, and is free from danger, discrimination, harassment, intimidation, and behavior which is destructive, disruptive or unlawful".

It is the responsibility of each student to understand and abide by regulations regarding general conduct as outlined in the UNB undergraduate calendar.

Reference Materials

- ▶ SJ Chapman, Matlab Programming for Engineers, 3rd Edition, Thompson, 2004.
- ▶ WJ Palm, Introduction to Matlab 7 for Engineers, McGrall Hill, 2005.
- A Gilat, Matlab An Introduction with Applications, John Wiley & Sons, Inc., 2004.