

University of Lethbridge  
Department of Mathematics and Computer Science

Computer Science 1000 – Introduction to Computer Science  
Course Outline – Fall 2022

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**LECTURES:** Tu Thr 13:30 – 14:45 **ROOM:** C610

**INSTRUCTORS:** Robert Benkoczi (office C556)  
robert.benkoczi@uleth.ca

**TEXTS:** There is no textbook for this course. A Lab manual will be provided for free, on Moodle and a large number of on-line resources are available.

<b>GRADING</b>	Lab project	40%
<b>SCHEME:</b>	Lab assignments (approx 5)	40%
	Homework assignments (approx 3)	20%

**GRADE DISTRIBUTION:** This information is provided as a guideline only and may be revised in this offering. Minimum percentages for each letter grade are:

A+	95	B+	82	C+	70	D+	56
A	90	B	78	C	66	D	50
A-	86	B-	74	C-	62	F	< 50

**SCHEDULE:**

(as time permits):

- 1) Arduino digital input and output. Analog input and pulse width modulation.
- 2) Controlling motors with the Arduino controller.
- 3) Processing various sensors. Sensor protocols such as I2C.
- 4) Lab project: work on the project takes place during the course lab sessions. The project is graded during the labs, no later than Week 12.

**COMMENTS:**

- There are no final or midterm exams in this course.
- Equipment is provided during the lab sessions. Students may also purchase their own equipment and use it in the course, but this is optional. Many resources are available freely online.
- Lab assignments and the lab project are completed and graded during the course lab hours. It is therefore very important that students attend the lab session they registered for. The instructors will do their best to try to accommodate **occasional and ad-hoc** requests for change, but since the equipment is limited, students not registered in a lab risk to be denied access to the lab and therefore risk missing their lab assignment or project.

- Work must be submitted at the scheduled time; no provision is made for missing homework or lab assignments or the lab project, except for medical reasons or emergencies. In such cases, the student is required to contact the instructor or the lab coordinator to request a make-up lab no later than one week from the date of the missed lab. Missed work receive 0 points.
- Copying is strictly prohibited. Plagiarism can lead to severe penalties – please consult the calendar.