Introduction to Laboratory Electronics

Instructor: Alex Wlasenko **email:** wlasenko@uvic.ca

Office Hours: TBA and by appointment

Course Description: Introduction to standard laboratory equipment including a survey of linear circuits, digital electronics and non-linear devices such as diodes, transistors and operational amplifiers.

Course Prerequisites: Physics 102, 112 or 120 and Mathematics 100 or 102

Recommended Text: D V Bugg, Electronics: Circuits, Amplifiers and Gates

Optional Text: P. Horowitz and W. Hill, The Art of Electronics

Course Assessment:

Laboratory: 30%

Assignments: 15%

Midterm: 20%

Final Exam: 35%

Calculators: On all examinations the only acceptable calculator is the Sharp EL-510R.

Laboratory Assessment: Each lab will be marked out of 10. The lab grade will be the average of the marks of all of the labs. A minimum grade of 50% in the laboratory component of the course is required. The optional exercises associated with some of the labs are provided to introduce you to some additional concepts or to extend the exercises in the required labs. No marks will be assigned for these optional exercises, but you may wish to submit these optional exercises to you lab instructor for comments. Lab reports are due at the beginning of the next lab session.

Assignments: There will be approximately 8-10 assignments given out during the course. Assignments are due at the beginning of class one week from the day they were issued.

Late assignments: If assignments are handed in up to one day late, there will be a 20% penalty. Assignments will not be accepted beyond this point.

Final Letter Grade: The Department of Physics and Astronomy conversion between numerical and letter grades will be applied.

A+	A	B+	B	B-	C+	C	D	E	F
90-100	85-89	80-84	75-79	70-74	65-69	55-59	50-54	40-49	0-39