

UNIVERSITY OF CALGARY
DEPARTMENT OF PHYSICS and ASTRONOMY
COURSE OUTLINE

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COURSE OUTLINE

1. Course: **Physics 497, Applied Physics Laboratory II**

L01: MW 1100-1150 ST057 Dr. RB Hicks Office: SB 531, Telephone: 403-220-3443
Office Hours: MoWe 1200-1250, SB 531
Email: hicks@ucalgary.ca

Lab Instructor: Mr. P.J. Irwin, Physics Senior Laboratory, ES 02, 403-220-6964. pjirwin@phas.ucalgary.ca

Course BLACKBOARD site **PHYS 497 L01 - (WINTER 2013) - Applied Physics Laboratory II**

Physics departmental Office: SB 605, Tel. 220-5385. Web Site: <http://www.phas.ucalgary.ca/>

2. **PREREQUISITES:** Physics 397 Applied Physics Laboratory I

Note The Faculty of Science policy on pre- and co-requisite checking is outlined in the Section 3.5C of the Faculty of Science entry in the online University Calendar. A student may not register in a course unless a grade at least C- has been obtained in each pre-requisite course; it is the responsibility of students to ensure that their registrations are in order.

3. **GRADING:** The University policy on grading and related matters is described sections F.1 and F.2 of the online University Calendar. In determining the overall grade in the course the following weights will be used:

Laboratory (13 weeks, 2 sessions per week)	60%	NOTE: formal Labs begin Wednesday, Jan 9, in ES02.)
Examinations (2 term tests in class)	20%	
Assignments (4)	20%	
	100%	

Percentage grades will be given for all elements of term work and examinations in Physics 497. A weighted course percentage will be calculated for each student after the term ends. The weighted course percentage will be converted to a course letter grade using the following scheme:

A+ 95%-100%	B+ 75%-80%	C+ 60%-65%	D+ 47%-50%
A 85%-95%	B 70%-75%	C 55%-60%	D 45%-47%
A- 80%-85%	B- 65%-70%	C- 50%-55%	F <45%

4. **Missed Components of Term Work.** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in section 3.6: <http://www.ucalgary.ca/pubs/calendar/current/sc-3-6.html>. It is the student's responsibility to familiarize himself/herself with these regulations. See also <http://www.ucalgary.ca/pubs/calendar/current/e-3.html>.

6. **TEXTBOOK:** *Physics 497 Course Notes*, R.B. Hicks. To be posted on Blackboard.

Useful reference books: *Basic Circuit Analysis*, 2nd ed. John O'Malley. Schaum's Outlines. McGraw-Hill.
Electronic Devices and Circuits, 2nd ed. Jimmie J. Cathey. Schaum's Outlines. McGraw-Hill.
The Art of Electronics, 2nd ed. Paul Horowitz and Winfield Hill, Cambridge University Press
The Fast Fourier Transform and Applications, E. Oran Brigham, Prentice-Hall

7. **EXAMINATION POLICY:** The **two term tests** in Phys 497 are closed book 50-minute tests held outside class time **11:00-11:50 am, Fridays, Feb 16 and Apr 12 in ST 057**, each worth 10% of course grade. Calculators are permitted. **There will be no final examination in this course.** Students should go to <http://www.ucalgary.ca/pubs/calendar/current/g.html>. and Section G of the Calendar on Examinations:

8. **OTHER IMPORTANT INFORMATION FOR STUDENTS:**

(a) **ACADEMIC MISCONDUCT** (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under K. Student Misconduct (<http://www.ucalgary.ca/pubs/calendar/current/k.html>) to inform yourself of definitions, processes and penalties.

(b) **ASSEMBLY POINTS** in case of emergency during class time. Be sure to **FAMILIARIZE YOURSELF** with the information at <http://www.ucalgary.ca/emergencyplan/assemblypoints>.

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