

Laurentian University

Scientific Method and Analysis II (Winter 2007) PSYC 2127EL 02

Instructor: Dr. Michael Emond
Office: A238
Phone: 675 1151, ext. 4246
Office Hours: Tuesday and Thursday 10:00 - 11:00 or by appointment
E-mail: memond@laurentian.ca

Text: *Experimental Psychology, 6th Edition*, Myers and Hansen
Note: 5th Editions will also be acceptable

Important Note: You need to have received at least a 60% in STAT or PSYC 2126 to be in this course.

Course Description:

The goal of this course is to teach the student how to design a scientific experiment. To achieve this goal the student will become familiar with the terms and the logic that goes into any strong scientific experiment. It is also hoped that by learning how to design a good experiment students will be more critical in recognizing poorly designed studies. Students will also learn the basics of ANOVA's, and Chi square tests.

Grading:

Midterm	25%	February 5 th
Midterm 2	25%	March 12 th
Assignment	10%	March 26 th
Final	40%	

The tests will be made up of multiple-choice, fill-in the blank, and short-answer questions. The final will cover all the material in the course with an emphasis on the last part of the course.

An assignment will be handed out by early February. It is a **student's responsibility** to find out if there was an assignment given out if they should miss a class.

Students are encouraged to seek out the instructor's help whenever they need clarification of the material that has been covered. Appointments can be made for any time.

NOTE: If there is any student in this course who, because of a disability, may have a need for special accommodations, please come and discuss this with me.

NOTE: It is the student's responsibility to alert the instructor AS SOON AS POSSIBLE when they are aware they will miss a test (midterm or exam) or be late for an assignment. Feel free to phone or e-mail the instructor with regards to this. **Alerting me after you have missed the test is unacceptable.** Telling me the day an assignment is due that you cannot hand it in is also **unacceptable.** Penalties (up to 15% per day) will be given out if an assignment is late or a student does not communicate to the instructor why they have missed a test (or exam) the day of the test.

P.S. Due to the nature of computers breaking down the day an assignment is due, this is no longer an acceptable excuse.

LECTURE SCHEDULE FOR SCIENTIFIC METHOD and ANALYSIS II

TOPIC	CHAPTER
Scientific Method	1-2
Non-experimental Designs	3-4
Correlational and Quasi-Experimental Designs	5
Hypotheses	6
Logic	
Designing the Experiment	7-8
Chi Square Tests	Assigned Readings
Experimental Designs	9-12
ANOVA	Assigned Readings
Applying Statistics to the Results	13-15