

BE 4989 Advanced

Examinations missed due to an unexcused absence cannot be made up and a grade of zero will be given for each one missed.

Any students requiring special arrangements for taking exams, taking-notes and other special arrangements please see or contact the instructor within the first two weeks of class.

Please make an appointment by e-mail for in-person consultations. If we make an appointment and you cannot attend, please call and cancel as soon as you can. Email is the best way to contact me.

Web Page/ Supplemental Course Material

A course web page will be made available through Moodle to enhance the course contents. Students are requested to visit this web site on a regular basis. The course webpage contains the course syllabus, the lecture schedule, lecture handouts, and review materials.

Project Report Format

For your project, you will be tasked to design an instrument (from Senior Design) and propose your testing methods for the efficacy of the instrument. A 5-10 page midterm progress report and an 8-10 page final project report will be generated. Expected formatting examples and tips will available on the course Moodle page.

Academic Integrity and Academic Misconduct

Students are expected to comply with the Code of Student Conduct at all times throughout this course. For your information, the Code of Student Conduct can be found at:

[http://appl015.lsu.edu/slas/dos.nsf/\\$Content/Code+of+Conduct?OpenDocument](http://appl015.lsu.edu/slas/dos.nsf/$Content/Code+of+Conduct?OpenDocument)

See attached schedule of classes (subject to change)

<u>Day of</u>	<u>Topic</u>	<u>Assignment or Reading</u>
24-Aug	Introduction to course	Business letter update on project
26-Aug	Background research, Emily Frank, LSU library	Read chapter 7

28-Sep	DC Motors	Read Chapter 14
30-Sep	AC Motors	
02-Oct	Pumps	
05-Oct	Actuators	
07-Oct	Autodesk CFD	
10-Oct	Autodesk CFD	
12-Oct	Review for Midterm	
14-Oct	Midterm	
16-Oct	no class	
19-Oct	Data Analysis – Experimental Planning	Supplement reading
21-Oct	Data Analysis – Experimental Planning	
23-Oct	Data Analysis – Experimental Planning	
26-Oct	Small Group – discussion on initial experimental plans	
28-Oct	Small Group – discussion on initial experimental plans	
31-Oct	FALL BREAK – no class	
02-Nov	Human Factors Engineering	
04-Nov	Building circuits / Drawing schematics	Chapter 7.2
06-Nov	Fabrication techniques	
09-Nov	Small group – individual meetings	
11-Nov	Small group – individual meetings	
13-Nov	Small group – individual meetings	
16-Nov	Open Book Exam Assigned	
18-Nov	Project work day	
20-Nov		