



ME 4501 –Vibrations & Controls Laboratory

forced vibrations, translational and torsional vibrations. Implementation of proportional, integral, and/or derivative control of dynamic systems.

General LEARNING OUTCOMES

Upon the completion of this course, you should be able to:

1. An ability to design and conduct experiments, as well as to analyze and interpret data.
2. Assess the validity of the experimental results and compare with theoretical results when possible.
3. An ability to communicate effectively by writing and submitting a laboratory report.
4. Calibrate a transducer and understand the signal path and relationship to the physical variable.

COURSE OUTCOME MEASURES and ASSESSMENT

Measures and assessment of the outcomes will be made by:

- Exams
- Lab Reports
- Lab notebook and other assignments.
- Student survey(s).

LABS

- Lab attendance is of paramount importance in this class. Due to high enrollment, it is difficult to make-up a lab. It is the student's responsibility to contact the Professor *prior* to the lab if s/he cannot attend the lab at the regular scheduled time. If you have a legitimate reason to miss 1 lab, attend a different lab section during the same week if possible. See the instructor(s) ahead of time for their approval if that is your plan.
- Use lab notebooks to document your laboratory work.
- The lab assignment and/or report are due 1 week after the lab session (unless otherwise declared by the Professor).
- Some labs may include assignments with calculations and written responses. Solutions must follow procedures and formatting that will be described below. Photocopies out of your lab notebooks may be allowed if sufficiently neat.



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- Other labs will require a technical memo or professional report. Lab reports should be typed up using formatting that will be specified by the professor.
- Lab reports, when due, are to be turned in at the beginning of class on the due date for full credit. They will be marked down 25% for each 24-hour period of tardiness.
- Lab notebooks may be graded during the midterm and final exam weeks.

EXPECTATIONS

- You are expected to check your email and Georgia VIEW Vista 8 **daily**. I will communicate with you via the email account that is assigned to you by SPSU.
- **SPSU has an Honor Code** and a procedure relating to when academic misconduct is alleged. All students should be aware of this. Information about the Honor Code and the misconduct procedure may be found at <http://spsu.edu/honorcode/>
- Questions regarding the grading of a report or exam must be submitted **in writing** to the professor within **one week** from the date that the work was returned. **RECOMMENDATIONS**
- Visit the course website on Vista for important announcements, documents, reading and homework assignments, and other helpful information.

AMERICANS WITH DISABILITIES ACT COMPLIANCE

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the ATTIC counselor working with disabilities at 678-915-7316, now in the *Basement* of the Student Center, as soon as possible to better ensure that such accommodations are implemented in a timely fashion. Accommodations are best implemented at the beginning of the semester. I will work with you to provide reasonable accommodations to ensure that you have a fair opportunity to perform and participate in class.