

**CIVL 3325: Mechanics of Materials Laboratory  
Spring 2026**

**Important: The instructor reserves the right to make changes as necessary to this syllabus. The instructor will notify students if changes are necessitated during the course term.**

**Instructor:** Dr. Pegah Farshadmanesh

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**Instructor's Office Hours:** TBD

**Teaching Assistant (TA):**

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- TA Office Hours: TBD

**Times and Locations of the Course:**

**When:** Tuesdays, 2:30pm to 5:20pm

**Where:** Engr Science Bldg, 220

**Credit:** 1 credit hour

**Prerequisite or Corequisite:** CIVL 3322

**Required Textbook:** None

**Description:** Materials testing and evaluation

**Learning Objectives:** Upon successful completion of this course, students should be able to:

- Follow general lab safety practices
- Properly use laboratory equipment and follow standard testing procedures discussed during this course
- Apply knowledge from the Mechanics of Materials course to complete laboratory experiments
- Work individually and as a team to perform laboratory tests
- Verify theories through experiment design, control and implementation
- Communicate test methods and results by preparing well written and properly formatted laboratory reports

**General Expectations:** Meeting these expectations will help you succeed in the course, but it does not guarantee it:

- Show up on time or early
- Always bring a calculator, pencils, and paper
- Take notes
- Have a binder or notebook dedicated solely to this course
- Contribute to the class discussion – I aim to establish a collaborative class environment. As such, I will ask questions and provide examples for students during my class discussion. I expect that students contribute to the class discussion by attending the classes, answering questions, and volunteering to solve problems. These activities will contribute to the “Attendance and Contributions” grading criteria discussed in this document's “Grading Policies” section.

**Grading Policies:** Students can demonstrate their skills and knowledge via attendance and contributions to class discussions, pre-lab and post-lab assignments, lab reports, final quiz, and final project. Your overall course grade is determined by your performance in each grading category using the following weights:

### Grading Categories

Category	Weight
Attendance and Contributions	10%
Pre-lab and post-lab Assignments	25%
Lab Reports	30%
Final Quiz	20%
Project	15%

Your final score is translated to a letter grade using the following grading scale:



- **Attendance:** Attendance is mandatory and is a part of your grade. If you are going to be absent from a class, contact the instructor immediately. **Unapproved** absences will affect your grade. If a student is more than 15 minutes late, it counts as an absence. It is the student's responsibility to acquire notes required to submit his/her assignments from classmates and complete/submit coursework by the due date. If any student is unclear about submitting their assignment, please contact the instructor or the teaching assistant ASAP. An unexcused absence does not extend assignment deadlines.
  - Any unapproved absence will have -15 points penalty out of 100 points. Given the nature of this class, you should notify your team members if you will be tardy/absent for any reason, planned or unplanned.
  - During the class, cell phones are to be kept in a secure location and not on the desktop. Secure locations include keeping the phone in your pocket, purse, bag, coat, etc.

Category	Definition	Attendance Record
Tardy	Up to 15 minutes late	0.5 absence
Absent	More than 15 Minutes late or not present at all	1 absence

- **Assignments:**
  - **Pre-lab Assignments:** There will be several pre-lab assignments during the semester. The goal of these assignments is to help you **become familiar with the lab subject prior to the lab experiment**. In addition, we will have several conceptual lectures, so you become familiar with the theoretical parts. These lectures are beneficial especially for those who take this lab and mechanics of materials course at the same time.
  - **Post-Lab Assignments:** After some lab demonstrations/tests, you will be asked to complete a post-lab assignment. These assignments will help you become familiar with the types of questions included in the final quiz.

Pre- and post-lab assignments will be posted on Canvas. You should turn in your assignments through Canvas. Late submissions will result in a reduction of your grade for that assignment based on the table below:

Condition	Grade Reduction
<1 day late assignment	40% reduction
More than 1-day late assignment	100% reduction (zero grade)

- **Grace Pass:** Students will have TWO Grace Passes for the semester (**for pre-lab, post-lab assignments and reports**). A Grace Pass provides a no-penalty 48-hour extension of the initial deadline for an assignment. The Grace Pass can be used at any time or not at all; it is up to the student. To use the Grace Pass, a student must attach the Grace Pass page to the front of the pre-lab/post-lab assignment (the Grace Pass page will be posted on Canvas).
- **Pre-lab and Post-lab Assignment Requirements:**
  - A pre-lab and post-lab assignment must be handwritten on engineering computation paper. An engineering computation paper template is available on Canvas.
  - A typed title page (see template on Canvas) is required for each pre-lab and post-lab assignment.
  - Every page must have a **page number** in the top right corner (excluding the title page).
  - All problems should be divided into *Given* and *Solution* sections.
  - Work from left to right, top to bottom, on each page.
  - All sketches should be drawn to scale using straight edges.
  - Draw a box around the final answers.
  - Always show units for final results (**VERY IMPORTANT**)
  - Write legibly and be neat and organized. If the grader cannot read your work, you will not receive credit for your work.

Failure to do any of these requirements will result in a deduction of points from that assignment (the details of rubric will be discussed in the class).

- **Reports:** After lab demonstrations/tests, you will be asked to generate a lab report. Lab reports demonstrate the ability to communicate results of a lab experiment to others, develop formal reports, and work with colleagues. You should turn in your report through Canvas. **While the test/experiment will be conducted as a group, each student should prepare an individual report for the lab.** A penalty of twenty points every day for late lab report (including holidays or weekends) will be considered. Please review the study guide on how to write a lab report and how it will be graded (this study guide can be found on Canvas).

Item	Points
1. Cover page	5
2. Table of contents	5
3. Objective	5
4. Theoretical background	20
5. Materials and apparatuses	5
6. Experimental procedure	15
7. Observations, data, calculations, and discussion	20
8. Conclusion and recommendations	10
9. References	5
10. Overall organization and readability	10

- **Final Project:** The details of the final project will be discussed during the semester.
- **Final Quiz:** Final quiz cannot be missed. If there is verifiable proof of a known scheduling conflict, students should inform the instructor at least two weeks before the exam to make prior arrangements to take the test at a different date/time. If the instructor suspects or finds any illegitimacy/dishonesty, then a grade of zero will be assigned for the exam.

**Table: Class Schedule during Spring 2026**

Week	Topics	Lecture or Experiment
1	Review Syllabus, Intro to Lab Experiments, How to Write a Lab Report?	Lecture
2	Statics Review, Intro to Axial Loading & Hands on Activities	Lecture & Hands on activities
3	Stress-Strain Diagram Lecture, Tension Test Experiment #1	Lecture, Experiment
4	Review, Tension Test Experiment #2	Lecture, Experiment
5	Torque Diagrams Lecture	Lecture
6	Review, Torsion Test	Lecture, Experiment
7	Shear and Moment Diagram Lecture	Lecture
8	Spring Break	
9	Bending in Beam Experiment	Experiment
10	Flexural Stress-Theory	Lecture
11	Internal Loadings Experiment	Experiment
12	Deflections of Beams Lecture	Lecture
13	Deflections of Beams Experiment	Experiment
14	Euler Column Buckling Lecture and Demonstration/Final Quiz	Lecture/Final Test
15	Final Project	–

**Academic Integrity:** The University of Memphis expects all students to behave honestly. The **Student Code of Rights and Responsibilities** explains what constitutes a violation of our Academic Integrity policy. For more information, please see the Office of Student Accountability's website: <https://www.memphis.edu/osa/>. Plagiarism, cheating, and other forms of academic dishonesty are prohibited. Students who violate the academic misconduct policy, either directly or indirectly, through participation or assistance, are immediately responsible to the class instructor and other possible disciplinary sanctions that may be imposed through the regular institutional disciplinary procedures.

Examples of academic dishonesty include, but are not limited to:

- Cheating – A student uses a smart phone to access the internet while taking a quiz.
- Copyright infringement – A student uses a photograph found on the internet in a presentation without obtaining permission from the photographer.
- Deception – A student gives a dishonest excuse when requesting a deadline extension.
- Denying access to information or material – A student makes library or shared resource material unavailable to others by deliberately misplacing those resources.
- Fabrication – A student invents data in academic work.
- Facilitating academic misconduct – A student knowingly allows a portion of their work to be used by another student.
- Plagiarism – A student represents the ideas of another in a paper without citing and referencing the work, or a student turns in the same or nearly the same assignment for credit in more than one class.
- Sabotage – A student prevents others from completing their work by opening a window to affect a temperature-controlled experiment.
- Unauthorized collaboration – A student works with other students on a paper without the specific permission of the instructor.

**Classroom Behavior:** Students should be aware of the **Student Code of Rights and Responsibilities**, which describes examples of unacceptable classroom behavior. Disruptive classroom behavior will not be tolerated. Instructors are empowered to remove students from class and refer behaviors for sanctioning to the Office of Student Accountability.

**Equity, Inclusion, and Accommodations:** Our class respects all forms of diversity. The University of Memphis embraces the diversity of students, faculty, and staff, honors the inherent dignity of each individual, and welcomes their unique perspectives, behaviors, and worldviews. In this course, people of all races, religions, national origins, sexual orientations, ethnicities, genders and gender identities, cognitive, physical, and behavioral abilities, socioeconomic backgrounds, regions, immigrant statuses, military or veteran statuses, size and/or shapes are strongly encouraged to share their rich array of perspectives and experiences. Course content and campus discussions will heighten your awareness of each other's individual and intersecting identities. In accordance with **UofM Policy GE2004**, the University will ensure students receive consistent and fair treatment and affirmation of the University's commitment to diversity. The University prohibits discrimination and harassment based on protected characteristics as stated in **UofM Policy GE2030**.

Please see the instructor if you need accommodations for a disability or to fulfill cultural or religious obligations. Students requesting accommodations should contact **Disability Resources for Students** to register and learn about the services available to support their learning. Students with disabilities are encouraged to speak with us privately about academic and classroom accommodations. It is strongly encouraged that you register with Disability Resources for Students (DRS) to determine appropriate academic accommodations. Disability Resources for Students is located at 110 Wilder Tower, their phone number is (901) 678-2880 (V/TTY), their email is [drs@memphis.edu](mailto:drs@memphis.edu), and their website is <https://www.memphis.edu/drs/>. Disability Resources for Students coordinates all accommodations for students with disabilities.

Qualified students with disabilities will be provided reasonable and necessary academic accommodations if determined eligible by the appropriate Disability Resources for Students staff at the University. Before granting disability accommodations in this course, the instructor must receive written verification of a student's eligibility for specific accommodations from the Disability Resources for Students staff at the University of Memphis. It is the student's responsibility to initiate contact with University's Disability Resources for Students staff and follow the established procedures for sending the accommodation notice to the instructor.

**Mental Health:** As a student, you can sometimes feel overwhelmed, lost, experience anxiety or depression, and struggle with relationship difficulties or diminished self-esteem. Mental health challenges can interfere with optimal academic performance. However, many of these issues can be effectively addressed with some help. If you find yourself struggling with your mental or physical health this semester, please feel free to approach me. I will try to be flexible and accommodating. As your instructor, I am not qualified to serve as a counselor, but UofM offers confidential counseling services on-campus and via telehealth that are available to students taking six or more credits at no cost. UofM Counseling Center is staffed by experienced professional psychologists, clinical social workers, and counselors who are attuned to the needs of college students. I strongly encourage you to take advantage of this valuable resource. To connect with Counseling Center services, please visit 211 & 214 Wilder Tower, or call 901.678.2068. To learn more about their services, visit their website at <https://www.memphis.edu/counseling>. In a crisis, please call 901.678.HELP (4357) to speak to the On-call counselor. Remember, getting help is an intelligent and courageous thing to do – for yourself and for those who care about you.

**Title IX:** The University of Memphis prohibits and will not tolerate sexual misconduct or gender-based discrimination of any kind.

**Sexual Misconduct & Gender-Based Discrimination:** The University is obligated to investigate sexual misconduct (including, but not limited to, sexual assault, sexual harassment, stalking, dating violence, and domestic violence). More information about Sexual Misconduct can be found in [UofM Policy GE2039](#).

**Disclosure & Mandatory Reporting:** If you disclose an incident of sexual misconduct to a faculty member, they have an obligation to report it to the University's Title IX Coordinator. "Disclosure" may include communication in-person, via email/phone/text message, or through in/out of class assignments.

**Confidential Resources:** If you wish to speak confidentially about an incident of sexual misconduct, please contact the [University of Memphis Counseling Center](#) (901-678-2068), the [University of Memphis Student Health Center](#) (901-678-2287), or the [Memphis/Shelby County Rape Crisis Center](#) (901-222-3950). If you want to learn more about sexual misconduct or report an incident, please visit <https://www.memphis.edu/oie/>.

**Accommodations for Pregnant Students:** Title IX prohibits the University from discriminating against a student based on pregnancy, childbirth, false pregnancy, termination of pregnancy, or recovery from any of these conditions. Title IX also prohibits a school from applying any rule related to a student's parental, family, or marital status that treats students differently based on gender. Additional information can be found on the Office for Institutional Equity website: <https://www.memphis.edu/oie/resources/>.