

Section 3 TuTh 9:35AM–10:50AM Engineering Building 3104

Instructor Long Lee **Office** 212 Ross Hall
Phone 766-4368 **Email** llee@uwyo.edu

Office Hours: TuTh 1:00–2:30PM, other times by appointment

Section Website: <http://www.uwyo.edu/llee/teaching/Fall12008/Math2310>

Textbook (required): *Elementary Differential Equations and Boundary Value Problems*, 8th ed., by William Boyce and Richard DiPrima

Catalog Description: Combines with MATH 3310 for one-year series in applied mathematics. Includes solution of ordinary differential equations, integral transforms. Emphasizes construction of mathematical models arising in physical science and other areas.

Prerequisite: Grade of C or better in MATH 2205

Course Goals and Topics: Differential equations are ubiquitous in applied math, physics, and engineering. Simply put, a differential equation is an equation that involves the derivative of a unknown function. Our goals this semester are (i) to see how these equations arise naturally in models of physical phenomena, (ii) to learn some techniques for solving differential equations, and (iii) to have some fun. That said, we'll cover most of chapters 1–4 and 6 in the text.

Classroom Procedures: I will spend the majority of our class time lecturing. In order to get people more involved, we may periodically work out problems interactively in class. Later in the term, we may also have students presenting their solutions to problems. You should *feel free to ask questions during the lecture*.

Homework: Homework problems will be assigned weekly and the solution will be posted the following week. Homework will not be collected.

Exams and Grading: There will be two noncumulative 75-minute exams during the semester and one final exam. The exams will be closed-book exams, but you will be allowed a single $3'' \times 5''$ notecard (both sides) of notes. Calculators will **NOT** be allowed (or needed) on any of the exams. The exam schedule is fixed. Please mark these dates in your calendar. *Do not miss an exam!* Grades will be assigned according to the following weights.

Quizzes	20%	\approx every 2 weeks	in class
Exam I	25%	Thursday, October 2	in class
Exam II	25%	Thursday, November 6	in class
Final Exam	30%	Tuesday, December 9	10:15AM–12:15PM

As a course policy, I will only discuss grade-related matters in person and in my office.

Legalese, Disclaimers, & other course policies:

- The information in this document is tentative and subject to change at the discretion of the instructor.
- If you have a physical, learning, or psychological disability and require accommodations, please let me know *within the first two weeks of class*. You will need to register with, and provide documentation of your disability to University Disability Support Services (UDSS) in SEO, room 330 Knight Hall.
- Academic Dishonesty—Academic dishonesty will not be tolerated in this course, and violators will be disciplined to the fullest extent of University Regulations. Academic dishonesty includes (but is not limited to) copying the work of another student and turning it in as your own work, allowing another student to copy your work, giving or receiving assistance without authorization on an examination, and using unauthorized electronic devices or other material during exams. Any case of academic dishonesty will be prosecuted in accordance with UNIREG 802 Rev. 2.
- Attendance—You are required to attend class on those days when an examination or quiz is being given; attendance during other class periods is also *strongly encouraged*. You are fully responsible for the material covered in each class, whether or not you attend. If you miss a class, *you* are responsible for obtaining lecture notes and other material on your own. Make-ups for missed exams will be given only for a University-excused absence, which I know about *before* the date of the exam.
- Email—Email is a great way to get in touch with me. I am happy to answer brief homework or other course-related queries over email. However, you should be aware of the following two email policies regarding this course. First, I will not discuss any grade-related matters over email; you must make an appointment to come and see me in person if you wish to discuss these issues. Second, during the business week, I will do my best to reply to email queries within 24 hours of their receipt unless I encounter extenuating circumstances. Email does not give you around-the-clock “tech-support” access to me. I rarely read email on weekends. *Plan ahead!*
- Unclaimed coursework—Coursework not retrieved on the day of return should be picked up during office hours.
- Workload—A common rule of thumb suggests that university students should spend 2-3 hours studying outside of class for each hour in class. You should therefore expect to be consistently spending *at least* 6-9 hours *outside of class time* each week working on MATH 2310.
- Inspirational Quote—Teachers open the door. You enter by yourself. *Chinese Proverb*