

## MATH 151: Engineering Mathematics I, Fall 2011

Section 813-816

TR 11:10-12:25, Heldenfels Hall 113

**Instructor:** Dr. Adam Larios

**Office:\*** Blocker Building, 641 C  
M,W,F 9:00 - 10:00

**Math Dept. Phone:** (979) 845-7554  
**Email:** alarios@math.tamu.edu

\*If you have any questions about the class, about material that was covered in class, about any material that you have read, or about homework problems please send me an email. If you have a question that cannot be answered over email, we can schedule another time to meet. Drop-ins are also welcome.

**Teaching Assistant:** Yang Qi  
Milner Hall, 030

**Email:** yangqi@math.tamu.edu

**Textbooks:** *Calculus, Early Vectors*. Stewart, 1999.  
*MATLAB: An Introduction with Applications, 4th Edition*. Gilat, 2010.

**Content:** This course provides students with quantitative and problem-solving skills of 2- dimensional vectors and differential calculus. At the conclusion of the course, students should be able to:

- know and use techniques of differentiation,
- apply techniques of differentiation to a variety of applications, including engineering applications,
- understand and apply vector operations in 2-dimensions, including dot product,
- understand the relationship between derivatives and integrals via the Fundamental Theorem of Calculus, and
- use computer algebra systems, such as MATLAB, to solve non-routine problems.

**Collaboration:** Collaboration is encouraged in this course. However, copying someone else's work is not acceptable and this act of academic dishonesty will be prosecuted following University policy.

**Homework:** Homework is designed to help students understand the material and to prepare them for the exams. Homework is handled through WebAssign, <http://www.webassign.net/tamu/login.html>. Late homework is not accepted; however, to balance this, your lowest two homework scores will be dropped.

**Exams:** There will be 3 common exams and a comprehensive final exam. Exam schedule:

- First exam: Thursday of Week 5
- Second exam: Tuesday of Week 9
- Third exam: Tuesday of Week 14
- Final exam: Friday, December 9, 12:30 - 2:30 pm

Please bring your Aggie Card when taking your exams. *No exam scores will be dropped.*

**Calculators:** There will be no calculators (or other electronic devices) used or allowed on exams and quizzes.

**Grading:** The final grade will be computed as follows.

Lab Work	10%	A	90%-100%
Homework	5%	B	80%-89%
Quizzes	10%	C	70%-79%
Exams	50%	D	60%-69%
Final Exam	25%	F	0%-59%

**Make-up exams:** Make-up exams will only be given with written evidence of an official University excused absence. Section 7.3 of the University Student Rules states that for an absence “to be excused the student must notify his or her instructor in writing (acknowledged email message is acceptable) prior to the date of absence if such notification is feasible. In cases where advance notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence. This notification should include an explanation of why notice could not be sent prior to the class.”

**Other Absences:** Daily attendance for class lectures is expected, but I will not take attendance directly. However, please note that, in this class, there is a strong correlation between class absences and poor grades.

**Attendance:** While attendance is not recorded, missing even one class will put you behind. You are responsible for all material and announcements in class regardless of whether or not you attended. You are also responsible for making arrangements with another classmate to find out what you missed.

**Incompletes:** Incompletes will be considered if all but a small portion of the class has been successfully completed and are prevented from completing the course by a severe, unexpected, and documented event. Students who are simply behind in their work should consider dropping the course.

**Special Services:** The American with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protections for persons with disabilities. Among other things, this legislation provides that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, Cain Hall, Room B118, (979) 845-1637. For additional information, visit <http://disability.tamu.edu>.

**Copyright policy:** Printed materials disseminated in class or on the web are protected by Copyright laws. One Xerox copy (or download from the web) is allowed for personal use. Multiple copies or sale of any of these materials is strictly prohibited.

**Honor Code:** Academic dishonesty is taken extremely seriously, and will be dealt with according to university policy. Always abide by the Aggie Code of Honor: “An Aggie does not lie, cheat or steal, or tolerate those who do.” For additional information, please visit <http://www.tamu.edu/aggiehonor>.

**Additional help:** Week in review: <http://www.math.tamu.edu/courses/weekinreview.html>  
Amy Austin's videos: <http://www.math.tamu.edu/~austin/wirmath151.html>  
Calclab information: <http://calclab.math.tamu.edu/>  
Help sessions: <http://www.math.tamu.edu/courses/helpsessions.html>  
Free tutoring: <http://tutor.tamu.edu/>  
Old exams: <http://www.math.tamu.edu/courses/math151/common-exams/>

**Other websites:** Campus emergency: <http://studentaffairs.tamu.edu/emergency>  
Department of Mathematics: <http://www.math.tamu.edu>  
Student Rules: <http://student-rules.tamu.edu>