MATH 151 – 501-503: Engineering Mathematics I, Spring 2012

Class: http://www.math.tamu.edu/~jhauenst/math151
Dept: http://www.math.tamu.edu/~jhauenst/math151

8:00 – 8:50 am MWF HELD 111

Instructor: Dr. Jonathan Hauenstein

Office Hours: Milner 123 Math dept phone: (979) 845-7554

M: 9:00 – 10:00, R: 10:15 – 12:00 **Email:** jhauenst@math.tamu.edu

Other times by appointment or drop-in

Teaching Bingbing Ji Email: iice@math.tamu.edu

Assistant: Blocker 605AX

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:

o know and use techniques of differentiation,

o apply techniques of differentiation to a variety of applications, including

engineering applications,

o understand and apply vector operations in 2-dimensions, including dot

product,

o 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.

Attendance: 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.

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 and is due each Monday at 11:55 pm. Since the four lowest scores will be dropped, no late homework will be accepted.

Suggested For additional homework problems, see

Homework: http://www.math.tamu.edu/courses/math151/currenthw.html

MATLAB: All assignments must be turned in at the beginning of the lab session. Since the

lowest score will be dropped, no late assignments will be accepted.

Quizzes:

Quizzes will be given in the recitation session each week in which there is not an exam. The two lowest quiz scores will be dropped. The make-up policy is stated below.

Exams:

There will be 3 common exams and a comprehensive final exam.

Exam schedule:

o First exam: Thursday, February 16th, 7:30 – 9:30 pm o Second exam: Thursday, March 22nd, 7:30 – 9:30 pm

Third exam: Tuesday, April 24th, 7:30 – 9:30 pm
 Final exam: Wednesday, May 9th, 10:30 am – 12:30 pm

Please bring your Aggie Card when taking your exams.

Scantron:

By February 1st, you must give me 4 of the 882-E Scantron forms (long green) which I will bring to the exams for you. Five points will be deducted from the first exam if they are not turned in by February 1st. If you drop the course, you may pick up your remaining Scantron forms from the instructor's office.

Calculator:

No calculators (or other electronical devices) may be used on quizzes or exams.

Grading:

The final grade will be computed using the follow weights.

eHomework	9 %
MATLAB Assignments	6 %
Quizzes	10 %
Exams (3 – weighted equally)	50 %
Final Exam	25 %

The grading scale is as follows.

A	90 % and above
В	80 % - 89.9 %
C	70 % – 79.9 %
D	60 % - 69.9 %
F	Below 59.9 %

I reserve the right to possibly consider attendance and other factors (e.g., final exam score) for border line cases.

Make-up quizzes and exams:

Make-up quizzes and exams will only be given with written evidence of an official University excused absence. Section 7.3 of the University Student Rules says 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."

Return of Exams:

The first three exams will be returned in class unless a student informs the instructor in writing (via email) by February 1st. In this case, the student will need to pick up the exam in the instructor's office.

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.

Disabilities: 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: All materials disseminated in class or on the web are protected by copyright laws.

Copies or downloads are allowed for personal use. Distribution or sale of any of these

materials in any form is strictly prohibited.

Honor Code: "An Aggie does not lie, cheat or steal, or tolerate those who do." For additional

information, 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