

**Course**

**Catalog Title and Description: Engineering Mathematics II (3-2), Credit 4, I, II, S.** The first part of this course covers applications and techniques of integration. The second part deals with infinite sequences and series along with an introduction to three-dimensional analytical geometry and vectors. The class meets twice a week in lecture, once in recitation, and once in computer laboratory. The recitation is designed for you to discuss homework problems with your teaching assistant (TA) and take written quizzes. In computer laboratory, you will use the mathematical software package Matlab on weekly assignments. Prerequisites: Math 151 or equivalent.

**Required Texts:**

1. *Calculus: Early Vectors (Aggie Edition)*, by James Stewart (and members of the Texas A&M University Department of Mathematics), published by Brooks/Cole, ISBN: 0-534-49348-3.
2. *Matlab: An Introduction With Applications*, by Amos Gilat, 3rd edition, published by John Wiley & Sons, ISBN: 0-470-10877-2.

**Departmental Course Website:** <http://calclab.math.tamu.edu/docs/math152/>

**Instructor**

**Instructor:** Dr. Zach Teitler

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**Office:** Milner 222

**Website:** <http://www.math.tamu.edu/~zzeitler>

**Office Hours:** TR 9:30–11:00 and by appointment

**TA:** Sunnie Joshi, [sjoshi@math.tamu.edu](mailto:sjoshi@math.tamu.edu)

**Classes**

**Lecture:** Tuesday/Thursday 8:00–9:15, HELD 107

**Recitation and Computer Laboratory:** (run by TA)

**522** M 1:50–2:40 SCTS 216 W 1:50–2:40 BLOC 123

**523** M 8:00–8:50 CE 136 W 8:00–8:50 BLOC 124

**524** M 3:00–3:50 BLOC 161 W 3:00–3:50 BLOC 126

**Week In Review and Help Sessions:** See <http://calclab.math.tamu.edu/docs/math152/>.

**Exams and Grading**

**Grade components:** Grades will be calculated from the following components: Three exams, a final exam, Matlab lab assignments, quizzes, and online homework. These components have the following weights:

Exam 1	15%	Thursday, October 1, 7:30–9:30 PM
Exam 2	15%	Thursday, October 29, 7:30–9:30 PM
Exam 3	20%	Tuesday, December 1, 7:30–9:30 PM
Final Exam	25%	Monday, December 14, 1–3 PM
Matlab Labs	10%	
Quizzes	10%	
Online Homework	5%	

The increased weights of the third and final exams reflect the cumulative nature of the course.

**Online Homework:** Online homework is required in all Math 152 classes. These online homework assignments can be accessed any time of day or night, from any computer with a connection to the internet and a Web browser. All information regarding online homework can be found at <http://www.math.tamu.edu/ehmwk>.

**Dropping scores:** Your lowest quiz score and your lowest 3 homework scores will be dropped. So if you miss a quiz or homework assignment, it will be dropped from your score with no penalty. *No exam score will be dropped.*

**Common Exams:** Exams 1, 2, and 3 are common exams (the same exam is given for all sections of Math 152). The locations of the exams will be announced before the exam. If you have a conflict with one of these days/times, contact me before the exam so that it can be resolved.

**Comprehensive Final Exam:** The final exam is comprehensive (covers all the material of the entire course).

**Course Grade:** The course grade is determined as follows:

90–100%	A
80–89.99%	no lower than a B
70–79.99%	no lower than a C
60–69.99%	no lower than a D

## Notes

1. Make-ups for exams will be given only in the case of absences authorized under Student Rules: Attendance.
2. Attendance at all lectures, recitations, and computer labs is required. If lecture attendance becomes an issue, there may be unannounced quizzes (“attendance quizzes”).
3. If you are late to lecture or miss a lecture, you are solely responsible for finding out what material you missed, and learning it. To find out what material you missed, contact other students in the class.
4. Common exams will be administered in the evening (7:30–9:30 pm) in rooms to be designated on the Web. The final exam will be administered in the classroom where lectures are given. Please bring a photo ID to all exams.
5. Selected problems from your textbook will be assigned but not graded (“suggested homework”). See the Web for details. It is imperative that you spend time working these problems. When you have questions, please ask for assistance.
6. We will not use calculators in class and they will not be allowed on exams or quizzes. You are allowed to use a calculator as a study tool if you choose, but it is not required.
7. I will communicate with you by sending email to your NEO e-mail address. Please check that address regularly. All e-mails to me must include your name. Please include “Math 152” in the subject line of e-mail that you send to me.

## Sources of help

Math 152 is often regarded as one of the most difficult math classes because it is fast-paced and covers a large, diverse body of material. If you feel you are starting to fall behind, please see me in my office hours as soon as possible! In addition you may take advantage of some of the following sources of help:

- Week in review, Help sessions, Streaming video lessons, Computer help sessions:  
<http://calclab.math.tamu.edu/docs/math152/>
- TAMU Student Counseling Service Self-Help Infosheets:  
<http://scs.tamu.edu/selfhelp/elibrary/infosheets.asp#academic>
- TAMU Student Counseling Service Programs for Academic Success Skills (PASS):  
<http://scs.tamu.edu/academic/LSC.asp>
- Other sites linked from my web page: <http://www.math.tamu.edu/~zzeitler/teaching/index.html>

## Other

**ADA Policy Statement:** The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires 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 the Department of Student Life, Services for Students with Disabilities, in Room B118 of the Cain Hall or call 845-1637.

**Copyright:** All printed handouts and web-materials for this course are protected by US Copyright Laws. No multiple copies can be made without written permission by the instructor.

**Scholastic Honesty:** Always abide by the Aggie Code of Honor: *An Aggie does not lie, cheat, or steal or tolerate those who do.* Please refer to Honor Council Rules and Procedures at <http://www.tamu.edu/aggiehonor> for more information on academic integrity and scholastic dishonesty.