

1 Course

Texas A&M University Department of Mathematics Math 152/801–803, Spring 2008

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 three times 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 7.5 on weekly assignments. Prerequisites: Math 151 or equivalent.

2 Classes

- **Lecture:** Monday / Wednesday / Friday, 9:10–10:00, HELD 109
- **Computer Lab (Tuesday) / Recitation (Thursday):**
 - Section 801: 2:20–3:10; Tuesday, BLOC 125 / Thursday, HALB 104
 - Section 802: 12:45–1:35; Tuesday, BLOC 127 / Thursday, ZACH 127A
 - Section 803: 8:00–8:50; Tuesday, BLOC 130 / Thursday, BLOC 164
- **MATLAB Help Sessions** in Blocker 131: Monday–Thursday, 7:00–10:00 pm; Sunday, 1:00–10:00 pm.
- **Calculus 2 Help Sessions:** See <http://www.math.tamu.edu/teaching/helpsession> once the term begins.

3 Instructor

Lecturer Art Belmonte (belmonte@calclab.math.tamu.edu)
Office BLOC 601J
Phone 845-4299
Class Page http://calclab.math.tamu.edu/~belmonte/2008a_m152.html
Course Page <http://calclab.math.tamu.edu/docs/math152/>
Office Hours TR, 8:30–10:00 am in Blocker 601J; or by appointment
Week in Review <http://www.math.tamu.edu/~austin/wirmath152.html>

4 Books

Textbook *Calculus: Early Vectors (Preliminary Edition)*, ©1999, ISBN 0-534-34941-2 (required)
Authors James Stewart (and members of the Texas A&M University Department of Mathematics)
Coverage Chapters 7–11

Lab Manual *MATLAB: An Introduction with Applications, 3rd Edition*, ©2008 (required)
ISBN-10: 0470108770; ISBN-13: 978-0470108772

Author Amos Gilat
Coverage Chapters 1–11

5 Evaluations

Grading: A (90–100%), B (80–89.99%), C (70–79.99%), D (60–69.99%), F (0–59.99%)

Type	Number	Weight
Exams	3	50%
Final	1	25%
MATLAB	11	11%
Online Homework	13	5%
Quizzes	15	9%
Suggested Homework	Lots	0%
TOTAL		100%

6 Notes

1. This is a second engineering math course with a technology component, the mathematical software package **MATLAB 7.5**. (Purchase the Student Version of MATLAB at the TAMU Bookstore in the MSC or on the web at www.mathworks.com. It runs under Windows, Linux, and Mac OS X.) NOTE: In class, we *always* introduce topics by hand at first, *then* use technology. I *strongly* recommend a TI-89 calculator with my free TAMUCALC 5.2 package. Both MATLAB and the TI-89 contain a computer algebra system. *Where and as stipulated*, calculators will be permitted on quizzes & the final. (Exams? We'll see.)
2. Please be on time to class. Make sure that you have read the relevant sections in the textbook or lab manual *beforehand*.
3. It is imperative that you spend time doing MATLAB during open hours, in TAMU open access labs, and/or at home.
4. Make-ups for exams will be given only in the case of absences authorized under Student Rules: Attendance.
5. Please bring your ID card to all common exams. These are administered in the evening (7:30–9:30 pm) in rooms to be designated on the Web.
 - **Exam 1:** Thursday, 14/Feb/2008, worth 15% of your grade
 - **Exam 2:** Thursday, 20/Mar/2008, worth 15% of your grade
 - **Exam 3:** Tuesday, 22/Apr/2008, worth 20% of your grade
6. Also bring your ID card and a BLUE BOOK to the final exam. It will be given on Monday, 05/May/2008, in HELD 109 from 8:00–10:00 am. It is comprehensive and worth 25% of your grade.
7. Selected problems from your textbook will be assigned but not graded. See the Web for details. It is imperative that you spend time working these problems. When you have questions, please ask for assistance.
8. Additionally, there are 13 online homework assignments, the lowest 3 of which are dropped. There are no makeups!
9. Details regarding MATLAB assignments from your lab manual are posted on the Web.
10. There are 15 quizzes given in recitation, the lowest 3 of which are dropped. There are no makeups!
11. Lectures for each section covered in the textbook are provided via the Web. This material is copyrighted. I grant you permission to make ONE copy of each document for your personal use.
12. There are also MATLAB and TI-89 streaming videos on the web that you may view at any time.

7 Miscellany

- The American 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 a 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.
- “An Aggie does not lie, cheat, or steal or tolerate those who do.” You are referred to the Honor Council Rules and Procedures on the Web at <http://www.tamu.edu/aggiehonor>.