

MATH 251/501–502 INFORMATION SHEET

1 Course

Texas A&M University at Qatar Department of Science/Mathematics Math 251/501–502, Fall 2008

Engineering Mathematics III (3-0), Credit 3. The first part of this course covers three-dimensional analytic geometry and vectors. The second part deals with differential calculus of functions of several variables: partial and directional derivatives, gradient, and multivariable optimization (max/min). The third part covers principles and applications of multiple integration—double and triple integrals in rectangular, polar, cylindrical, spherical, and generalized coordinates. The fourth part deals with vector calculus—line and surface integrals and the principal theorems associated with them. The class meets three times a week in lecture. (There is no recitation or computer laboratory.) Prerequisite: Math 152.

2 Classes/Sessions

- **Lecture:** Sunday/Tuesday/Thursday in TAMUQ 117, as follows.
 - Section 501, 8:00–8:50
 - Section 502, 9:00–9:50
- **Supplemental Sessions (if any):** See web if necessary.

3 Instructor

Lecturer Art Belmonte (arthur.belmonte@qatar.tamu.edu)
Office TAMUQ 171
Phone 423-0232
Class Page http://calclab.math.tamu.edu/~belmonte/2008c_m251.html
Office Hours Sunday–Thursday, 10:00–12:00, TAMUQ 171, or by appointment.

4 Books

Textbook *Calculus: Early Vectors*, ©1999, ISBN-10: 0-534-49348-3, ISBN-13: 978-0-534-49348-3
Authors James Stewart and members of the Texas A&M University Department of Mathematics
Coverage Chapters 11–14

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	4	80%
Final	1	20%
Homework	lots	0%
TOTAL		100%

6 Notes

1. This is a third engineering math course. It follows single variable differential and integral calculus.
2. Please be on time to class. Make sure that you have read the relevant sections in the textbook *beforehand*.
3. Make-ups for exams will be given only in the case of absences authorized under University Regulations.
4. Please bring your ID card to all exams. They are in TAMUQ 117, your lecture room, during class time.
 - **Exam 1:** Thursday, 11/Sep/2008; covers Chapter 11; worth 20% of your grade.
 - **Exam 2:** Thursday, 09/Oct/2008; covers Chapter 12; worth 20% of your grade.
 - **Exam 3:** Thursday, 06/Nov/2008; covers Chapter 13; worth 20% of your grade.
 - **Exam 4:** Tue&Thu, 25&27/Nov/2008; covers Chapter 14; worth 20% of your grade.
 - **Final Exam A** (Section 501): Sun, 30/Nov/2008; 10 am – 12 noon; worth 20% of your grade.
 - **Final Exam B** (Section 502): Mon, 01/Dec/2008; 8–10 am; worth 20% of your grade.
5. Also bring your ID card to the final exam. It will be given at the time and place stipulated by the University. You will be apprised of details well in advance on the web. The final is comprehensive and worth 20% of your grade.
6. 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 help.
7. 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.
8. At all times, I expect you to be prepared and to work hard; you can expect the same from me. Each student will be judged on the individual merit of his or her own work.

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 Disability Services in Cain Hall on the Texas A&M College Station campus, Room B118, or call 1-979-845-1637 (or such other number as directed by TAMUQ).
- “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>.