

Math 152: Calculus II**Spring 2011**

INSTRUCTOR: Joe Kahlig **PHONE:** 862-1303
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OFFICE HOURS: MWF: 9:30am-11:30am
 MW: 2:00pm-3:45pm
 other times by appointment
CLASS TIMES: 152.510-512: TR 12:45-2pm in Held 107
 152.522-524: TR 2:20-3:35 in Held 109

RESOURCE MATERIALS: *Calculus: Early Vectors*, by Stewart et al, published by Brooks/Cole. ISBN: 9781428251427

Matlab: An Introduction with Applications, by Amos Gilat, published by Wiley. ISBN: 0470108770.
 On-line access code for Web Assign.

PREREQUISITE: MATH 151 or equivalent. Credit will not be given for both MATH 152 and 172.

COURSE CONTENT: Integration techniques and their applications (area, volumes, arc length, work), improper integrals, analytic geometry, vectors, infinite series, power series, Taylor series, computer algebra

LEARNING OUTCOMES: This course is to provide students with quantitative and problem-solving skills of integral calculus, power series, and 3-D vectors. At the conclusion of this course, students should be able to:

- Apply techniques of integration to a variety of applications, including engineering applications
- Understand and explain convergence of sequences and infinite series
- Apply power series to a variety of applications, including engineering applications
- Understand and apply vector operations in 3-dimensions, including dot and cross product
- Use Computer Algebra Systems such as Matlab to solve non-routine problems

GRADING POLICY: Your grade will be determined by three exams, a cumulative final exam, and a laboratory grade (quizzes, computer labs, and electronic homework). The weights for each of these are as follows. The weights for each of these are as follows. You will also have quizzes during the lecture part of the class. At least one quiz grade will be dropped when computing the quiz average.

3 Exams	50%	Exam 1: February 17	A = 90-100
Homework Average	10%	Exam 2: March 24	B = 80-89
Quiz Average	10%	Exam 3: April 26	C = 70-79
Matlab Assignments	5%		D = 60-69
Final Exam	25%		F = 0-56
<hr/> Total	100%		

Final Exam Schedule

Section 510-512: Wednesday, May 11 from 8:00am - 10:00am.

Section 522-524: Wednesday, May 11 from 1:00pm - 3:00pm.

EXAMS: The exams will be held at night from 7:30-9:30. Calculators will not be allowed on the exams. The final exam will be comprehensive. Once an exam is returned, I will not give a makeup for that exam. If you believe that you have a valid reasons for receiving a makeup after the exams have been returned, then talk to me. Any question regarding grading/scoring must be done within one week of the return of the exam or no change to the grade will be made.

ELECTRONIC HOMEWORK: The electronic homework will be worked and submitted in the WebAssign system. Due dates for the electronic homework can be found in the webassign system. Directions on how to log into this system can be found on my webpage. You will be able to request an extension of one day on the homework assignments. At least one homework assignment will be dropped when computing the average.

QUIZZES: I will give quizzes during the lectures. There will also be weekly quizzes in your lab. I will drop at least one of the quiz grades when calculating the quiz average.

MATLAB ASSIGNMENTS: Are handled by the TA. Objective: to apply logic and computer skills to solving mathematical problems.

MAKE-UP POLICY: Electronic homework assignments can not be submitted after their due-date. If you have a valid excuse for a late assignment, talk to me about other options. Make-ups for quizzes and exams are only possible for an excused absence. Verification that the absence is excused will be necessary in order to take a make-up. Note: the "Texas A&M University Explanatory Statement for Absence from Class" form is not considered appropriate documentation for an excused absence.

A.D.A. 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, Disability Services, in Room B118 of Cain Hall or call 845-1637.

COPYRIGHT POLICY: The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, in-class materials, review sheets, and additional problems sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission.

SCHOLASTIC DISHONESTY: *An Aggie Does Not Lie, Cheat, or Steal or Tolerate Those Who Do.* The Aggie Code of Honor will be enforced in this course. For the purpose of this course, cheating will be defined as (but not limited to) access or use of unauthorized material during exams and quizzes, collaboration between students during exams, quizzes or assignments for which group work is not allowed, perusal of another student's work during exams and quizzes, copying other student's work or allowing other students to copy you work on any assignment, quiz or exam, and having unauthorized programs or other information stored on calculators when these calculators are accessible during an exam or quiz.

For additional information about Aggie Honor System consult <http://www.tamu.edu/aggiehonor/>