Math 242 Sec. 1 & 2, Course Information - Fall 2009

INSTRUCTOR: Professor Karl Heinz Dovermann

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TA: William DeMeo (williandomerco@math.hawaii.edu)

TEXT & MATERIAL: Calculus (Early Vectors), James Stewart, Thompson, Brooks/Cole

Inverse function, logarithm and exponential functions, inverse trigonometric functions, l'Hospital's Rule, methods of integration, infinite sequences and series, power and Taylor series, error estimates, differential equation. For a more detailed time line see the master syllabus on the department website.

COURSE OBJECTIVES: Upon successful completion of Math 242, the student will have a understanding of the above listed topics, be able to solve related routine problems, and be able to apply the ideas.

PROGRAM OBJECTIVES: In this introductory level course, the second course in our calculus sequence, students learn techniques of integration, power and Taylor series, and some first and second order differential equations. The course material is fundamental for majors in mathematics, the physical sciences, and engineering.

DERIVE VIDEOS: We recorded some getting started videos for the computer program Derive for Windows. You can view or download these videos by going to http://www.math.hawaii.edu. Then click on Online Materials. You can also borrow a CD and copy the videos. You may also be able to get a complimentary copy of the program from your instructor.

OFFICE HOURS: Monday, Wednesday, Friday 9:30–10:15, Tuesday and Thursday 9:00–9:45. Other hours are available by appointment. Your TA is available for additional help.

EXAMS: There will be two midterms (the dates will be announced in class) and a final exam (see the university calendar for the date and time). Make-up exams will be given only under excruciating circumstances such as serious illness or family emergencies. Proof may be required. If you are a student
athlete, or you need to travel for academic reason, then you must make
arrangements in advance to take tests at an alternate time, possibly early.

**HOMEWORK:** I will assign homework every lecture. It is due during the
next lecture.¹ Some problems will be graded. Homework should be cleanly
written, and you may have to revise it before it is in an acceptable form.
Your solutions should show the steps of your solution in a logical order and
end with a proper formulation of the final answer.

**GRADING:** Your grade will be determined by the scores on the midterms
(100 points each), homework and labs (125 points throughout the semester),
and the final exam (175 points), provided that you passed the gateway exam.
There may be a few opportunities to earn extra credit.

**ABSENCES:** It is expected that you attend every lecture and recitation
session. If you are absent, then you are responsible for the material covered.
Arrange to copy another student’s notes and be informed of any announce-
ments.

**ACADEMIC EXPECTATIONS:** Please read the statement about the
academic expectations on the Mathematics Department webpage. Go to
http://www.math.hawaii.edu, pick ‘Undergraduate’ and click on Academic
Expectations.

**CALCULATORS:** Use of calculators will not be permitted on exams.

**ACADEMIC HONESTY:** No student shall claim or submit the work of
another as one’s own. No dishonesty will be tolerated.

**IMPORTANT DATES:** It is your responsibility to know about the impor-
tant dates, such as deadlines to drop or withdraw from a course, holidays,
final exam, etc.

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¹If you have to miss class, then you may hand in homework early. No late homework
will be accepted.