

Math 252A, Course Information - Fall 2016

INSTRUCTOR: Professor Karl Heinz Dovermann

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HOME PAGE: <http://www.math.hawaii.edu/~heiner/>

OFFICE HOURS: Monday, Wednesday, Friday 8:45–9:20, Tuesday and Thursday 10:30–11:15. Other hours are available by appointment. Your TA is available for additional help.

TA: Umar Gaffar, Office: Keller 404F, Office hours: MW 10:30–11:30 and T 10:00–10:30 and 11:30–12:00

Course Description: Integration Techniques and applications, series and approximations, differential equations.

TEXT & MATERIAL: *University Calculus (Alternate Edition)* by J. Haas, M. Weir, and G. Thomas, Addison Wesley.

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 department syllabus on the department website. (It may still undergo some minor adjustments.)

COURSE OBJECTIVES: Upon successful completion of Math 252A, 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.

EXAMS: There will be two midterms (the dates will be announced in class) and a final exam (see the university calender 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 (150 points throughout the semester), and the final exam (150 points). There may be a few opportunities to earn extra credit.

ABSENSES: 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 announcements.

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.

IMPORANT DATES: It is your responsibility to know about the important dates, such as deadlines to drop or withdraw from a course, holidays, final exam, etc.

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