MAP 2302 - Elementary Differential Equations
Summer 2014 - Syllabus

Course Description Elementary Differential Equations (MAP 2302) provides an introduction to the theory and techniques used in differential equations. Topics covered include first-order ordinary differential equations, theory of linear ordinary differential equations, solutions of linear ordinary differential equations with constant coefficients, the Laplace transform and its application to solving linear ordinary differential equations.

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Prerequisites A competence in the techniques of Calculus 1 and 2 is assumed. A familiarity with multivariable calculus will be useful but is not required.

Textbook *Fundamentals of Differential Equations and Boundary Value Problems*, 6th Edition, by R. Kent Nagle, Edward B. Saff and Arthur David Snider, by Briggs

Course Notes Course notes will be provided on the course website. The notes are workbook-style. I recommend that you print the notes and bring them to class so that you can fill in the blanks.

Examinations There will be three in-class exams. Each exam is worth 60 points. Tentative dates for the exams can be found in the course calendar. These dates are subject to change. None of the exam scores will be dropped.

Quizzes There will be three in-class quizzes. Each quiz is worth 20 points. Tentative dates for the quizzes can be found in the course calendar. These dates are subject to change. None of the quiz scores will be dropped.

Written Homework Written homework will be assigned but not collected. These exercises can be found in the course notes. Understanding the assigned homework problems will be highly beneficial as many of the quiz and exam problems will very closely resemble the assigned homework problems.

Participation There will be assignments given in class for participation credit. This will constitute 60 points of your grade.

Grade Your grade will be computed as explained above and is determined as follows:

$$
\begin{array}{llllll}
A: & 270 - 300 & A-: & 260 - 269 & B+: & 250 - 259 \\
B: & 240 - 249 & B-: & 230 - 239 & C+: & 220 - 229 \\
C: & 200 - 219 & C-: & 190 - 199 & D+: & 180 - 189 \\
D: & 170 - 179 & E: & < 170
\end{array}
$$

Students taking the S/U option must first get permission from the instructor. In this case an S can be achieved by getting a C or better. Deadline for approval is given in the Undergraduate Catalog.

The grade of I is never used to avoid an undesirable grade. It is used only if illness or extenuating circumstances result in a student being unable to complete the final exam or other course requirements by the end of the semester after having completed a major portion of the course with a passing grade.

Make Ups Permission to take a make up exam is rarely granted. Make up exams will be given only for extreme illness, death in the family or a conflict with a university-sponsored event. Permission should be obtained at least one week ahead of time. In extenuating circumstances, permission to take a make up exam may be granted no later than the day of the exam.

Sakai Each assignment will have its grade posted on Sakai within a week of its due date. It is your responsibility to verify that the grade posted on Sakai coincides with the grade on your returned assignment. If there is an error in your grade, you have one week from the date your grade was posted to inform the instructor. No assignments grade will be modified later than one week from the date the assignment is handed back to the class. In particular, missing class the day an assignment is returned does not grant you extra time to have your grade modified.

Tutoring The Broward Tutoring Center (`https://teachingcenter.ufl.edu/`) provides free tutoring services for university students.

Students with Disabilities Students registered with the Disability Resource Center should approach the instructor as soon as possible to arrange for exam and quiz accommodations.