



M W F Period 3 (9.35-10.25 am), LIT 205

MAP 2302 (Elementary Differential Equations) is a 3 credit hours course in differential equations that covers topics such as: first order linear, separable, exact and homogeneous second order homogeneous and non-homogeneous ordinary differential equations with constant and variable coefficients, the Laplace transform and its application to solving linear ordinary equations, power series solutions of ordinary differential equations, and applications of differential equations.

Differential equations constitute a language through which the laws of nature are expressed. Many of the fundamental laws of applied Mathematics, Physics, Chemistry, Biology, Engineering, Economics and Finance can be formulated as differential equations. Hence, it is essential for students in the physical sciences, biological sciences, engineering, social sciences, etc., to be familiar with differential equations.

The major objective of MAP 2302 is to introduce students to the basic concepts and applications of differential equations. Students would be expected to understand the basic concepts of differential equations well enough to be able to decide when, how, and why to apply them to real-world phenomena and to be able to interpret and communicate the results. This course is designed to help students progress in developing analytical thinking, critical reasoning, problem-solving, and communication skills. The goal is to obtain a useful mastery of concepts and methods basic to fully understand and appreciate the theory and practice of differential equations.

The purpose of homework is to develop more skills in the material covered. It will be the student's responsibility to solve the assigned homework problems in a timely manner. Selected problems from homework will be graded and these will count towards the final grade. Students who intend to do well in the course are advised to solve the homework problems. Students should feel free to approach the instructor with difficulties from homework problems. Problems in which students encounter difficulties may also be discussed in class. See the detailed course outline for assigned homework problems.

There will be four exams administered during the normal 50 minutes class period and one cumulative (comprehensive) final exam. The final exam shall be administered according to the University's schedule. Each exam will consist of a multiple choice and a problem section. The problem section will contain questions that require detailed solutions and possibly definitions and brief explanations of concepts and it will be graded on a partial credit basis. Only the best four exams will count towards the final course grade.

Grade	Range	Grade	Range	Grade	Range
A+	480-500	C+	388-399	E	0-299
A	465-479	C	375-387		
A-	450-464	C-	350-374		
B+	438-449	D+	338-349		
B	425-437	D	325-337		
B-	400-424	D-	300-324		

In a bit to understand the material, it will be essential that students keep pace with the material as it is being presented. Consequently, students will be expected to attend all class meetings, and to be on time too. Late homework will not be accepted or graded.

Students requesting classroom accommodations or special arrangements during examinations must first register with the Dean of Students Office. The Dean of Students Office will provide documentation. The student must then make arrangements with the instructor to meet the requesting accommodation.

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please

contact umatter@ufl.edu, so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 911.



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