

MAP 2302 – 03H – 3 credits – Fall 2022
Honors Differential Equations



Instructor: Dr. Warren McGovern
Office: HC 101
Meeting Times: TR 9:30-10:50am
Meeting Place: SR 283
Phone: 561-331-2128 (don't use –instead email me)
Office Hours: TBD and by appointment.
Home Page: <http://home.fau.edu/wmcgove1/web/>
email: warren.mcgovern@fau.edu

COURSE MEETINGS: IN-PERSON

COURSE DESCRIPTION: An introduction to ordinary differential equations stressing basic techniques and applications.

PREREQUISITES: MAC 2312

GOALS. Some specific goals of the course are for you to:

- think critically (always a goal in mathematics classes);
- communicate effectively, especially by writing precisely about technical things;
- improve logical thinking and problem-solving skills;
- learn how to solve some different kinds of differential equations.

TEXT: *Differential Equations with Boundary Value Problems, 9th Edition* Dennis G. Zill, by Cengage.

You will be required to purchase a semester access to the e-book and **WebAssign**. You can buy this through the campus bookstore or you can buy it directly from Cengage. If you are taking CHM 2045 this semester you should upgrade to the Cengage Unlimited which will cover both courses. Here is the link to buy it directly from Cengage. are two options. One option is to buy Cengage unlimited. If you are taking CHM 2045 concurrently then this is your best option. If you only need Cengage for this class then you should be able to order the materials for \$105.00, select Digital Platform.

<https://www.cengage.com/c/differential-equations-with-boundary-value-problems-9e-zill/9781305965799/>

Here is a link to the book at the FAU bookstore. Should list as \$133.50.

<https://www.bkstr.com/faustore/course-materials-results?shopBy=course&divisionDisplayName=&departmentDisplayName=MAP&courseDisplayName=2302§ionDisplayName=03H&programId=4649&termId=100074220>

Here is a link to Cengage Unlimited. (You do not need both.)

<https://www.bkstr.com/faustore/product/cengage-unlimited--1-term--4-months---1st-edition-487004-1>

ATTENDANCE. You are responsible for all material covered in the lectures. Given the current state of affairs, I will not take attendance but I urge you to attend as often as possible.

GRADEBOOK. Canvas is NOT the official gradebook; I keep the gradebook. Use the point totals in canvas as a **guide** to your grade. See below for Grading.

HOMEWORK. Please read the sections in the book, and then complete the assigned **WebAssign** homework prior to the due date. **WebAssign** will be used to submit homework. Homework should be submitted by the posted deadline to get full credit. My default setting is that you will get 4 attempts on each HW, and your best score on each problem will be counted. Each HW problem has been assigned a value. **Webassign** does give partial credit. Your final grade in HW will be to take the total number of points earned divided by the total number of points assigned. (For the purposed of calculations, a **WebAssign** assignment that has “—Makeup” will not count towards the total points earned nor assigned.)

QUIZZES. There will be several canvas quizzes as well as in-class quizzes aimed at checking your daily and weekly progress and comprehension. These are also used to help ensure that you stay on top of the material. The point of the quiz is to give you practice in answering questions. You may use your notes and calculators to take the quizzes. But you are not allowed to work with others (either in the class or not in the class). You should definitely NOT work together on the quizzes. There will be a deadline for the quizzes. You will only be allowed to try the quiz one time. Be sure to allot yourself enough time to complete the quiz in one sitting. There will also be quizzes given

out in class. These will usually be short and only consist of a few problems. If I happen to collect a HW in class, the points will count towards in-class quizzes.

TESTS AND MAKEUP POLICY. We will have two (2) tests and a comprehensive final exam. If you are not able to take an exam, I and only I, will approve a makeup exam. There should be a good/valid reason for you not taking an exam at its scheduled time. I also reserve the right to individually come up with a different plan versus providing a makeup exam.

CALCULATORS. You will not be allowed to use a calculator on in-person quizzes nor exams. Feel free to use any calculator for all HWs and Canvas quizzes.

WEBASSIGN MAKEUP POLICY. If I decide to grant a makeup for a **WebAssign** assignment, the student should know that they will be allowed to complete the assignment past the deadline. If prior to the deadline, the student earned 50% or more of the available points, then redoing the assignment will allow the student to earn 70% of the missed available points. I will only give points earned over the number earned on the original assignment. This means you should redo the whole assignment. For example, if you earned 45 out of 60 points then you should redo the whole assignment to get 60 points in order to earn 70% of 15=60-45 points. (You will have already earned 45 points.)

LATE POLICY. If you submit an assignment or canvas quiz to canvas after the deadline then you will receive at most 50% of your earned points. (I might choose to award 75% for those assignments turned in within an hour of the deadline. If I choose to do this then I will be consistent and treat everyone similarly.) In-class quizzes taken after the regularly scheduled time will be graded and you will receive 50% of your earned points. If you have a valid excuse (e.g. illness, school function) for taking an in-person quiz after the regularly scheduled time, I will award the full amount of earned points.

POLICY ON INCOMPLETES. I am really striving towards not giving any incompletes. Incomplete grades will be assigned only in the case of a documented emergency or illness.

GRADING.

Your final grade will be the best of the following two schemes. I reserve the right to solely grade a particular student using exactly one of the grading schemes. Please see Academic Integrity and remember the Honor Code.

Scheme I.

30%	Homework -- WebAssign
25%	Exams -- two
25%	Final Exam
10%	Quizzes – In Class
10%	Quizzes -- Canvas

Scheme II.

5%	Homework -- WebAssign
35%	Exams -- two
40%	Final Exam
10%	Quizzes – In Class
10%	Quizzes -- Canvas

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0 – 59

Exam Dates

Exam 1	Thursday Sep 29 th
Exam 2	Thursday November 17 th
Final Exam	Thursday Dec 8 th 7:45am-10:15am

Other Important Dates

Labor Day	September 5 th , No Class
September 26	FAU is open
October 5	FAU is open
Mid Term Grades Due	October 18th
Last Day to Drop	October 28th
Veteran's Day	November 11th
November 21	FAU is open
November 23	FAU is open
Thanksgiving Break	November 24-27
December 3	Classes End
December 5-7	Reading Days

FREE MATH TUTORING

The Jupiter campus and the Honors College sponsor in-person tutoring.... However, it does not look like there is a tutor scheduled for MAP 2302.

<https://www.fau.edu/honors/current-students/jupiter-campus-tutoring/>

Also, the MLC (Math Learning Center) provides the following FREE tutoring for all FAU students in their math courses:

- **ONLINE:** Please see <http://www.math.fau.edu/mlc/remoted/index.php> for available days/times and links to online tutoring. All tutoring is drop-in (no appointments are needed) and is available through Zoom.
- **IN PERSON:** In person tutoring availability <http://www.math.fau.edu/mlc/>.

Please email mlc@fau.edu should you need further information or have questions.

Policy on Accommodations

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses -- Boca Raton, SU 131 (561-297-3880); in Davie, LA 131 (954-236-1222); in Jupiter and all Northern Campuses, SR 111F (561-799-8585). Disability services are available for students on all campuses. For more information, please visit SAS website at www.fau.edu/sas/.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

COLLABORATION AND THE HONOR CODE. I expect you to abide by the Honors College Academic Honor Code. It is available at <http://www.fau.edu/honors/academics/honor-code.php>. You are allowed to collaborate on all HWs; this includes **WebAssign**, portfolio, and HWs to be turned in. You are asked not collaborate on exams and quizzes.

Academic Integrity Policy

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Plagiarism

Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. Plagiarism is unacceptable in the University community. Academic work must be an original work of your own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they must acknowledge that fact in an appropriate manner. If in doubt, cite your source.

Classroom Etiquette Policy

In order to enhance and maintain a productive atmosphere for education, personal communication devices, such as cellular telephones and pagers, are to be disabled in class sessions.

Policy on the Recording of Lectures

Because of a new Florida Statute in 2021, the following model language is suggested for inclusion in course syllabi, at the discretion of individual faculty: Students enrolled in this course may record video or audio of class lectures for their own personal educational use. A class lecture is defined as a formal or methodical oral presentation as part of a university course intended to present information or teach students about a particular subject. Recording class activities other than class lectures, including but not limited to student presentations (whether individually or as part of a group), class discussion (except when incidental to and incorporated within a class lecture), labs, clinical presentations such as patient history, academic exercises involving student participation, test or examination administrations, field trips, and private conversations between students in the class or between a student and the lecturer, is prohibited. Recordings may not be used as a substitute for class participation or class attendance and may not be published or shared without the written consent of the faculty member. Failure to adhere to these requirements may constitute a violation of the University's Student Code of Conduct and/or the Code of Academic Integrity. Recorded lectures used for other purposes may allow the faculty member to seek "damages plus court costs and reasonable attorney fees, with the total recovery not to exceed \$200,000."

Disclaimer #1

Students are encouraged to employ critical thinking and to rely on data and verifiable sources to interrogate all assigned readings and subject matter in this course as a way of determining whether they agree with their classmates and/or their instructor. No lesson is intended to espouse, promote, advance, inculcate, or compel a particular feeling, perception, viewpoint or belief.

Disclaimer #2

The instructor reserves the right to change/alter/add/delete any statement from this syllabus in hopes of creating a more enjoyable/equitable course.