

MAC 2313 – 11H – 4 credits – Fall 2023
Honors Calculus – Analytic Geometry 3



Instructor: Dr. Warren McGovern
Office: HC 101
Meeting Times: MW 11:00-12:50pm
Meeting Place: SR 268
Phone: 561-***-**** (don't use –instead email me)
Office Hours: T TBD; and by appointment via zoom hours
Home Page: <http://home.fau.edu/wmcgove1/web/>
email: warren.mcgovern@fau.edu or wmcgove1@fau.edu

COURSE MEETINGS: IN-PERSON

COURSE DESCRIPTION: Vector space, inner product, length, cross product, curves in space; functions of several variables; differentiability, gradient, tangent planes, differential approximation, surfaces, optimization with constraints, multiple integrals, theorems of Green, Stokes and Gauss.

PREREQUISITES: MAC 2312

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

- think critically (always a goal in mathematics classes);
- improve your capacity to remember and recall information
- communicate effectively, especially by writing precisely about technical things;
- improve logical thinking and problem-solving skills.
- learn how to view three dimensional objects.

WARNING: The text covers 6 chapters and about 42 sections. We will be flying and so you should be expecting to work outside the classroom a few hours each week. You are expected to know how to take derivatives and anti-derivatives of all of the special functions.

TEXT: *Calculus, 12th Edition* Larson and Edwards, 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. If you only need Cengage for this class then you should be able to order the materials for \$111.00, select Webassign. Here is the link to buy it directly from Cengage.

<https://www.cengage.com/c/multivariable-calculus-12e-larson/9780357749289/>

(Use WebAssign for the \$111 option.)

CALCULATOR: You may use a calculator on quizzes and tests. These can be simple scientific calculators or anything up through the TI-84 series. Each of you will be required to check with me on which calculator you can use and I have the right to not allow a certain calculator.

WebAssign for Larson and Edwards' Calculus, 12th Edition

Here is a link to the book at the FAU bookstore. Should list as \$148.00.

<https://fau.follettdiscover.com/courses/MAC.2313/terms/202308/sections/MAC.2313.11H.202308/division/DFLT/materials/9780357749289/details>

ATTENDANCE/PARTICIPATION. You are responsible for all material covered in the lectures and assigned in class. I will take attendance to help determine your participation grade. However, I will be dropping up to 2 missed classes against your participation grade. 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.

QUIZZES. There will be several 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 are allowed to use a calculator to take the quizzes. But you are not allowed to work with others during the quiz. You should definitely NOT work together on the quizzes. If I happen to collect a written HW in class or assign a HW to be turned into canvas, the points will count towards in-class quizzes.

LATE POLICY. If you submit an assignment or to canvas after the deadline then you will receive at most 50% of your earned points. 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.

EXAMS 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 reason and valid excuse for you not taking a test or an exam at its scheduled time. I also reserve the right to individually come up with a different plan versus providing a makeup exam. An unexcused missed exam will count as 0 points.

WEBASSIGN MAKEUP POLICY. For each webassign HW assignment there will be a due date. The students will earn 100% of the points acquired on the assignment by the due date. At the deadline, the assignment will be closed on webassign. However, once I record the scores I will open up the assignment with a new due date of sometime in December. Any points acquired after the original due date but before the makeup due date will be worth 50% towards the total amounts of points earned on webassign.

GRADING.

Your final grade will be determined by your scoring on the best of the following three schemes. I reserve the right to solely grade a particular student using exactly one of the grading schemes...meaning my choice. This will only be enforced in an atypical case; please see Academic Integrity and remember the Honor Code.

Scheme I.

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

Scheme II.

14%	Homework -- WebAssign
40%	Exams -- two
30%	Final Exam
15%	Quizzes – In Class
1%	Participation

Scheme III.

5%	Homework -- WebAssign
40%	Exams -- two
45%	Final Exam
10%	Quizzes – In Class

Final Grading Scale

A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F
93-100	90-92.9	87.5-89.9	83-87.5	80-82.9	77.5-79.9	70-77.49	69	67.5-68.9	60-67.4	60-62.9	0 – 59.9

Exam Dates

Exam 1	Monday Oct 2 nd
Exam 2	Wednesday November 15th
Final Exam	Monday Dec 11 th 10:30am-1:00pm

Other Important Dates

Labor Day	September 4 th , No Class
September 25	FAU is open
October 13	FAU is open
Mid Term Grades Due	October 17th
Last Day to Drop	October 27th
November 1	FAU is open
Veteran's Day	November 10 th , No Class
November 20	FAU is open
Thanksgiving Break	November 22-26
December 2	Classes End
December 4-6	Reading Days

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.

FREE MATH TUTORING

The Jupiter campus and the Honors College sponsor in-person tutoring.

<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/remote/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. 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, I expect each individual to treat the others in the class with respect.

Policy on the Recording of Lectures

Because of a recent 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.