

Math 151-03¹ (Calculus and Analytic Geometry I)

Summer Semester 2024

Lecture: MWTh 9:00 – 11:25am Math & Psychology 103
Discussion: MWTh 11:30 – 12:10pm Math & Psychology 103

Instructor: Ahmet Kaan Aydin

Office: Shermann Hall 139

Office hours: Monday 3:00 - 4:00 pm, Wednesday 4:30 - 5:30 pm

Contact via email for virtual appointments.

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Teaching Assistants: Section 04: Soubhagya Panda e-mail: spanda2@umbc.edu

Textbook: James Stewart, *Calculus, Early Transcendentals, 9th Edition*, Thomas/Brooks Cole, 2020. You will also use WebAssign, an online homework system, which you will find in Blackboard under Content. This course is participating in the Course Materials Initiative. Your textbook is digital and is provided through VitalSource Bookshelf. You can read your eTextbook online via Blackboard or download it to different devices including your computer, tablet, Kindle or smartphone. Information is provided under Blackboard / Content / Start Here about creating your Bookshelf account. **You do not need to purchase a hard copy of the textbook if you do not wish to.**

Testing and Grading: The usual grading system will be used in this course as follows:

Grade	Score				
A	90% – 100%	WebAssign	Best 10	=	200 points (25%)
B	80% – 89%	Quizzes	10, with 2 drops	=	200 points (25%)
C	70% – 79%	Exams	2, worth 100 points each	=	200 points (25%)
D	60% – 69%	Final Exam		=	200 points (25%)
F	0% – 59%		TOTAL	=	800 points (100%)

Course Outcomes:

- Understand the definition of a limit of a function
- Calculate Limits
- Understand the definition of the derivative
- Calculate derivatives
- Use derivatives in applications
- Define and calculate simple integrals

The following outcomes are no less important and are not directly course-content related.

- Learn to think analytically – to break down complicated problems into manageable pieces
- Develop study and time management skills

Attendance and Behavior: Attendance is not required but crucial to success in this class. New content will be covered at a rapid rate, and if you fall behind, it will be very difficult to catch up. **There will be no make-ups or extensions on WebAssign homework or quizzes.** Quiz and Homework drops exist because life happens; there will be no quiz makeups for any reason. Make-up exams will be given **at my discretion**, in general only in situations where there is a conflict with a **sanctioned university activity or religious holiday** of which I have been notified **at least a week in advance**. Such activities may include things like a course conflict or an athletic event.

¹Last updated: July 10, 2024

Homework and WebAssign: WebAssign problems will be assigned each week. Please keep an eye on WebAssign for upcoming due dates usually on Wednesday and Sunday. Assignments will always be due by **11:59pm** on the due dates. There are no make-ups or extensions associated with WebAssign, but 90% accuracy will be enough to count as full credit. Other scores will be scaled accordingly. (The algorithm is $\min[\text{score} * (10/9), 10]$.) You get **five tries** for each WebAssign question (excluding True/False and multiple choice questions). The highest 10 WebAssign scores will be added together and taken as your WebAssign grade (out of a possible 200 points). You are still responsible for the material on any WebAssign problems or assignments that you skip. **Given the leniency of this grading, there is not a reason in the world for anybody to get less than a full 100% mark on WebAssign at the end of the term.** If your scores are not at that level, you are not doing your job sufficiently for this course.

WebAssign can be accessed through Blackboard by navigating to Blackboard / WebAssign or through Blackboard / Course Materials / WebAssign. **I am unable to answer technical questions about WebAssign.** All technical questions must be directed to the WebAssign support staff.

To be clear: doing only the WebAssign homework each week is **not enough** to do well in this course. Students should expect to spend a **minimum of 20–24 hours per week** on homework and study **outside of class** for this course. **I am not kidding.** This is an average of around **3 hours per night**. This time should include careful reading (with note-taking) of the textbook, as well as working through all of the suggested homework problems, at the very least. It is better to spread this work out throughout the week, and not save it all for the weekend; otherwise it may be hard to follow material that is introduced later in the week. Success in this course has as much or more to do with proper time management and study habits, as with aptitude or skill in mathematics. Students are advised to form study groups.

Quizzes: There will be a quiz on most discussion sections, always covering the material from the previous class. There are **10** quizzes throughout the term. The lowest **2** quizzes will be dropped. Each quiz will be graded out of 25 points. 8 quizzes at 25 points each, adds up to a total possible 200 points. Each quiz will be approximately 20 minutes long.

It is also important to note that this is at heart a non-calculators course. This might differ pretty heavily from your previous math courses in high school or at a community college. You will need to have a mastery of algebra and precalculus without relying on a calculator. **You will not be allowed to use a calculator on quizzes or exams** (and we will attempt to make the numerical parts straightforward enough that you won't need them). This also means that we will use exact numerical representations (like $\sqrt{2}$ or π) wherever possible, rather than decimal approximations (like 1.41425... or 3.14159...). We will only use decimals in very limited contexts or when explicitly required by WebAssign.

Exams: There will be two exams given during lecture:

- Exam 1: **Wednesday, July 24th**
- Exam 2: **Monday, August 5th**

Exams are held in the same room as your usual lecture. All exams will be **closed-notes, closed-books, no calculators**. If your lowest exam score is at least 25% **and** it is to your benefit, I will replace this lowest exam score with your score on the final exam. This policy allows you to have a bad test day, and also reflects the fact that learning takes place over the course of the semester; what you may not understand at the beginning of the term may be clearer at the end. Note that this policy will apply to **at most one** of your exams. A missed exam will be counted as a zero. See the attendance policy, above, for the only exceptions to this rule.

Final Exam: The final exam will be held on the last day of classes.

- Final: **Thursday, August 15th** Time: TBA Location: TBA

Final exam will be closed-notes, closed-books, no calculators. **There will be no makeups for the final exam.**

Academic Integrity: By enrolling in this course, each student assumes the responsibilities of an active participant in UMBC's scholarly community in which everyone's academic work and behavior are held to the highest standards of honesty. Cheating, fabrication, plagiarism, and helping others to commit these acts are all forms of academic dishonesty, and they are wrong. Academic misconduct could result in disciplinary action that may include but is not limited to suspension or dismissal. To read the full Student Academic Conduct Policy, consult the UMBC Student Handbook, the Faculty Handbook, or the UMBC Policies section of the UMBC Directory. <http://www.umbc.edu/provost/integrity/faculty.html>

Academic integrity is a core value at UMBC and I expect that value to be reflected in your coursework. You must cite any outside sources you use for homework. You may not use any outside sources for exams or quizzes. You may be asked to have a one-on-one meeting with me to discuss course material. If your responses are substantially different from work you've submitted, you may face an allegation of academic dishonesty, which can result in a zero for the assignment in question and a report of academic misconduct.

Accessibility and Disability Accommodations, Guidance and Resources: Accommodations for students with disabilities are provided for all students with a qualified disability under the Americans with Disabilities Act (ADA & ADAAA) and Section 504 of the Rehabilitation Act who request and are eligible for accommodations. The Office of Student Disability Services (SDS) is the UMBC department designated to coordinate accommodations that creates equal access for students when barriers to participation exist in University courses, programs, or activities.

If you have a documented disability and need to request academic accommodations in your courses, please refer to the SDS website at sds.umbc.edu for registration information and office procedures.

SDS email: disAbility@umbc.edu

SDS phone: 410-455-2459

If you will be using SDS approved accommodations in this class, please contact the instructor to discuss implementation of the accommodations. During remote instruction requirements due to COVID, communication and flexibility will be essential for success.

Campus Safety: The following sections refer to campus policy on harrassment, violence, and other issues. All policies and forms can be found at ecr.umbc.edu.

Sexual Assault, Sexual Harassment, and Gender Based Violence and Discrimination UMBC Policy in addition to federal and state law (to include Title IX) prohibits discrimination and harassment on the basis of sex, sexual orientation, and gender identity in University programs and activities. Any student who is impacted by sexual harassment, sexual assault, domestic violence, dating violence, stalking, sexual exploitation, gender discrimination, pregnancy discrimination, gender-based harassment, or related retaliation should contact the University's Title IX Coordinator to make a report and/or access support and resources. The Title IX Coordinator can be reached at titleixcoordinator@umbc.edu or 410-455-1717.

You can access support and resources even if you do not want to take any further action. You will not be forced to file a formal complaint or police report. Please be aware that the University may take action on its own if essential to protect the safety of the community.

If you are interested in making a report, please use the Online Reporting/Referral Form at https://umbc-advocate.symplicity.com/titleix_report/index.php/pid364290?. Please note that, if you report anonymously, the University's ability to respond will be limited.

Notice that Faculty and Teaching Assistants are Responsible Employees with Mandatory Reporting Obligations

All faculty members and teaching assistants are considered Responsible Employees, per UMBC's Policy on Sexual Misconduct, Sexual Harassment, and Gender Discrimination. Faculty and teaching assistants therefore required to report all known information regarding alleged conduct that may be a violation of the Policy to the Title IX Coordinator, even if a student discloses an experience that occurred before attending UMBC and/or an incident that only involves people not affiliated with UMBC. Reports are required regardless of the amount of detail provided and even in instances where support has already been offered or received.

While faculty members want to encourage you to share information related to your life experiences through discussion and written work, students should understand that faculty are required to report past and present sexual harassment, sexual assault, domestic and dating violence, stalking, and gender discrimination that is shared with them to the Title IX Coordinator so that the University can inform students of their rights, resources, and support. While you are encouraged to do so, you are not obligated to respond to outreach conducted as a result of a report to the Title IX Coordinator.

If you need to speak with someone in confidence, who does not have an obligation to report to the Title IX Coordinator, UMBC has a number of Confidential Resources available to support you:

Retriever Integrated Health (Main Campus): health.umbc.edu 410-455-2472; Monday – Friday 8:30 a.m. – 5 p.m.; For After-Hours Support, Call 988.

Center for Counseling and Well-Being (Shady Grove Campus): 301-738-6273; Monday-Thursday 10:00a.m. – 7:00 p.m. and Friday 10:00 a.m. – 2:00 p.m. (virtual) Online Appointment Request Form <https://shadygrove.titaniumhwc.com/>

Pastoral Counseling via The Gathering Space for Spiritual Well-Being: 410-455-6795; i3b@umbc.edu; Monday – Friday 8:00 a.m. – 10:00 p.m.

Other Resources

Women's Center (open to students of all genders): <https://womenscenter.umbc.edu/> 410-455-2714; womenscenter@umbc.edu; Monday – Thursday 9:30 a.m. – 5:00 p.m. and Friday 10:00 a.m. – 4 p.m.

Shady Grove Student Resources (<https://ecr.umbc.edu/shady-grove-title-ix-resources/>), Maryland Resources (<https://ecr.umbc.edu/maryland-resources/>), and National Resources (<https://ecr.umbc.edu/national-resources/>)

Child Abuse and Neglect

Please note that Maryland law and UMBC policy require that faculty report all disclosures or suspicions of child abuse or neglect to the Department of Social Services and/or the police even if the person who experienced the abuse or neglect is now over 18.

Pregnant and Parenting Students

UMBC's Policy on Sexual Misconduct, Sexual Harassment and Gender Discrimination expressly prohibits all forms of discrimination and harassment on the basis of sex, including pregnancy. Resources for pregnant, parenting and breastfeeding students are available through the University's Office of Equity and Civil Rights. Pregnant and parenting students are encouraged to contact the Title IX Coordinator to discuss plans and ensure ongoing access to their academic program with respect to a leave of absence – returning following leave, or any other accommodation that may be needed related to pregnancy, childbirth, adoption, breastfeeding, and/or the early months of parenting.

In addition, students who are pregnant and have an impairment related to their pregnancy that qualifies as disability under the ADA may be entitled to accommodations through the Office of Student Disability Services.

Religious Observances & Accommodations

UMBC Policy provides that students should not be penalized because of observances of their religious beliefs, and that students shall be given an opportunity, whenever feasible, to make up within a reasonable time any academic assignment that is missed due to individual participation in religious observances. It is the responsibility of the student to inform the instructor of any intended absences or requested modifications for religious observances in advance, and as early as possible. For questions or guidance regarding religious observances and accommodations, please contact the Office of Equity and Civil Rights at ecr@umbc.edu.

Hate, Bias, Discrimination and Harassment

UMBC values safety, cultural and ethnic diversity, social responsibility, lifelong learning, equity, and civic engagement.

Consistent with these principles, UMBC Policy prohibits discrimination and harassment in its educational programs and activities or with respect to employment terms and conditions based on race, creed, color, religion, sex, gender, pregnancy, ancestry, age, gender identity or expression, national origin, veterans status, marital status, sexual orientation, physical or mental disability, or genetic information.

Students (and faculty and staff) who experience discrimination, harassment, hate, or bias based upon a protected status or who have such matters reported to them should use the online reporting/referral form (https://umbc-advocate.symplcity.com/titleix_report/index.php/pid954154?) to report discrimination, hate, or bias incidents. You may report incidents that happen to you anonymously. Please note that, if you report anonymously, the University's ability to respond may be limited.

Class website: Course information and content (including this syllabus, homework assignments, access to WebAssign, recorded lectures, practice material, and much more) will be available at the Blackboard website: <http://my.umbc.edu/go/blackboard>