

MAT 267

# CALCULUS FOR ENGINEERS III

Fall 2024

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**Office Hours:** TBA

**Class Number:** 64212

**Days:** Mondays/Wednesdays

**Time:** 4:30 – 5:45 pm

**Location:** Social Sciences Building (SS) 105

**Course Description:** Vector-valued functions of several variables, partial derivatives, multiple integration.

**Prerequisite(s):** MAT 266 or MAT 271 (Calculus II) or its equivalent with a grade C or better.

**Textbook:** *Essential Calculus, Early Transcendentals*, 2nd Edition, by James Stewart (Cengage) or the ASU bookstore version.

- The textbook for this course is strongly recommended, but not required. If you choose to purchase a textbook, a physical textbook or e-book is acceptable, and you can purchase an older edition of the textbook.
- We will be covering material from chapters 1-5 of the textbook.

**YOUR INSTRUCTOR RESERVES THE RIGHT TO ALTER THIS SYLLABUS AND ITS STRUCTURE TO BEST FIT THE NEEDS OF THE CLASS. ANY IN-CLASS ANNOUNCEMENT, VERBAL OR WRITTEN, IS CONSIDERED AN OFFICIAL ADDENDUM TO THIS SYLLABUS.**

**BY STAYING ENROLLED IN THIS COURSE, YOU AGREE TO ALL SYLLABUS POLICIES.**

**Grading:** There will be 3 unit ("hour") tests (which will each last 50 minutes), and one Final Exam (which will last an hour and 50 minutes), as well as homework.

- Each of the 3 unit tests will count as 20% of your total grade, the Final Exam as 20%, Edfinity homework as 10%, and written homework as 10%.
- The standard 10-point scale will be used to convert percentages to letter grades (100% and above is an A+, 90% to 99.99% is an A, 80% to 89.99% is a B, etc.), with a possible curve.

**Final Exam Schedule:** Your Final Exam will be held according to ASU's Final Exam Schedule. Because MAT 267 is a "Common Finals" course, it will be held on Tuesday, December 10, from 7:10 – 9:00 pm. Makeup finals will **NOT** be given for conflicts with travel and/or other events. **PLAN ACCORDINGLY.** If you have a conflict with another Final Exam, you need to arrange for an alternate time as soon as possible.

**Homework:** A paid subscription to Edfinity is required. Steps to follow can be found at the Canvas shell.

**Tests:**

- Non-CAS graphing calculators are allowed on the exams, unless stated otherwise.
- Test dates are included with the topic breakdown. You must take your test at the same time as on your schedule. Make-ups are possible, at the instructor's discretion.
- Tests and the Final Exam will be given in person.
- The Final Exam is not comprehensive, so no test grades will be dropped. Retakes will not be allowed.

**Graphing Calculator:** A graphing calculator is required for this course. If you already have a graphing calculator, you may use it. Examples of highly recommended models are the TI 83/84 calculators or Casio fx-9750 Plus. Calculators with QWERTY keyboards or those that do symbolic algebra, such as the Casio FX2, Casio 9970Gs, TI-89, or TI-92 cannot be used during an exam.

**Attendance:** I will be taking attendance during the first week of class, to verify that the students who have registered still intend to attend. Students who do not show up (or contact me) during that first week will be dropped. Afterwards, attendance will be optional, but you must make up any material you miss.

**Cell Phones:** No cell phone use allowed during lecture or during tests. Having a cell phone out while taking a test might result in an automatic E for the class.

**Homework** consists of written homework, due weekly, and online homework. Currently, the online homework system is EdFinity (included in the Canvas shell).

**Written Submission Format:** All written submissions, if electronic, must be in a single file and in .pdf format. There are apps to merge separate .jpegs or .pdfs into a single .pdf file. [smallpdf.com](http://smallpdf.com) and [docupub.com](http://docupub.com) are some of the most popular. If you use your smart phone there are apps to do this as well, the most popular being CamScanner. Furthermore, all work must be legible, organized and clearly labeled to receive credit. Illegible work will receive no credit.

**Course Evaluation:** Towards the end of the semester students will be allowed to evaluate this course and its instructor. You will receive an email providing you with instructions on how to do this.

**ASU Learning Support Services (LSS):** The LSS ( <https://studentsuccess.asu.edu/> ) provides counseling, tutoring in math (and many other subjects), supplemental instruction, and other types of support to students. LRC resources are available in many residence halls and in the Memorial Union, Room 14. See the LRC web page for further information.

**Sources for help:**

- Office Hours
- **Tutoring Center:** The Math Tutoring Center / Mathematics Community Center (free of charge) offers tutoring in WXMLR 116 and BAC 16. Come in for help before it is too late, and several days before an exam day to strengthen your preparation. In order to be admitted to the Tutor Center each student present their valid ASU "Sun Card". More information about tutoring can be found at <https://tutoring.asu.edu/>
- **ASU's Learning Support Services (LSS)** provide day and evening tutoring as well as test reviews for over 100 classes, including math, composition, business, languages, engineering, and the sciences. LSS also offers workshops on software and academic skills and provides personalized academic coaching to help students manage their time and develop effective study habits. Students can schedule appointments for most services online.
- **The Engineering Tutoring Center is in ECF 100 and offers tutoring as well.** Warning: The tutors there are Engineering majors, not mathematics majors, so the more abstract/theoretical stuff might confuse them.
- Online Subject Area Tutoring is also available.
- **SoM&SS's Private Tutoring Page**, listing these sources and individual tutors.

Tentative Schedule [Section numbers are from the textbook.]

Aug 26, 28	Administrative, 10.1
Sep 4	10.2, 10.3 [No Lecture on September 2; Labor Day]
Sep 9, 11	10.4, 10.5
Sep 16, 18	10.5 – 10.7
Sep 23, 25	10.8 – 11.1
Sep 30; Oct 2	Review and <b>Test 1</b> [Chapter 10]
Oct 7, 9	11.1 – 11.5
Oct 16	11.5 – 11.6 [No Lecture on October 14; FALL BREAK]
Oct 21, 23	11.6 – 12.1
Oct 28, 30	Review and <b>Test 2</b> [Chapter 11]
Nov 4, 6	12.2 – 12.4
Nov 13	12.5 – 12.7 [No Lecture on November 11; Veterans Day]
Nov 18, 20	Review and <b>Test 3</b> [Chapter 12]
Nov 25, 27	13.1 – 13.4
Dec 2, 4	13.5 – 13.7 and Review
Dec 10	<b>Final Exam</b> (a.k.a. <b>Test 4</b> ) [Chapter 13], 7:10 – 9:00 pm

## Departmental and University Policies and Procedures

**Disability Accommodations:** Please meet with your instructor immediately if you have a disability that will require accommodations in this class. Note: To qualify for disability accommodations at ASU, students must qualify for services through the Student Accessibility and Inclusive Learning Services (SAILS), which is located on the 1st floor of the Matthews Center Building at (480) 965-1234 (voice) or (480) 965-9000 (TTY). Please complete this process as soon as possible.

**Withdrawal:** A student may withdraw from a course with a grade of W during the withdrawal period. The instructor's signature is not required. It is the student's responsibility to verify that he or she has officially withdrawn from the class.

**Final Exam Make-up Policy:** The Final Exam schedule listed in the Schedule of Classes will be strictly followed. Except to resolve those situations described below, no changes may be made in this schedule without prior approval of the dean of the college in which the course is offered.

- Religious conflict (e.g., the student celebrates the Sabbath on Saturday)
- The student has more than three exams scheduled on the same day as the math final.
- Two or more Final Exams are scheduled on the same day at the same time.

Make-up exams will NOT be given for reasons of a non-refundable airline tickets, vacation plans, work schedules, weddings, family reunions, and other such activities. Students should consult the final exam schedule before making end-of-semester travel plans.

**Honor Policy:** The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the University or other sanctions as specified in the University Student Academic Integrity Policy. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities. See the following website for more details: [http://www.asu.edu/studentaffairs/studentlife/judicial/academic\\_integrity.htm](http://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm)

**Academic Dishonesty:** In the "Student Academic Integrity Policy" manual, ASU defines plagiarism as "using another's words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately." Academic dishonesty, including inappropriate collaboration, will not be tolerated. There are severe sanctions for cheating, plagiarizing and any other form of dishonesty. More information can be found at [https://www.asu.edu/studentaffairs/studentlife/judicial/academic\\_integrity.htm](https://www.asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm)

**Academic Integrity:** ASU expects and requires all its students to act with honesty and integrity, and respect the rights of others in carrying out all academic assignments. For more information on academic integrity, including the policy and appeal procedures, please visit <https://provost.asu.edu/academicintegrity> and the Student Conduct Statement elsewhere in this document.

**Artificial Intelligence:** In this course, all assignments must be completed by the student. Artificial Intelligence (AI), including ChatGPT and other related tools used for creating of text, images, computer code, audio, or other media, are not permitted for use in any work in this class. Use of these generative AI tools will be considered a violation of the ASU Academic Integrity Policy, <https://provost.asu.edu/academic-integrity/policy> and students may be sanctioned for confirmed, non-allowable use in this course.

**The grade of XE:** A grade of XE is reserved for "failure for academic dishonesty." The XE grade may be petitioned after 1 year.

**Ethics:** Grades are based only on academic work and are calculated using the same criteria for all students. It is highly unethical to bring to your instructor's attention the possible impact of your mathematics grade on your future plans, including graduation, scholarships, jobs, etc. The instructor may exercise an option to withdraw you from the course if they think you are compromising the ability to assess your work independently of any other consideration.

**Classroom behavior:** Under no circumstances should you allow your cell phone to ring during class. Any disruptive behavior, which includes ringing cell phones, listening to your mp3 player, text messaging, constant talking, eating food noisily, reading a newspaper will not be tolerated. Students who engage in disruptive classroom behavior may be subject to various sanctions. The procedures for initiating a disruptive behavior withdrawal can be found at <https://clas.asu.edu/classroom/disruptive>

**Student Conduct Statement:** Students are required to adhere to the behavior standards listed in Arizona Board of Regents Policy Manual Chapter V (Campus and Student Affairs: Code of Conduct), ACD 125: Computer, Internet, and Electronic Communications, and the ASU Student Academic Integrity Policy. Students are entitled to receive instruction free from interference by other members of the class. If a student is disruptive, an instructor may ask the student to stop the disruptive behavior and warn the student that such disruptive behavior can result in withdrawal from the course. An instructor may withdraw a student from a course when the student's behavior disrupts the educational process under USI 201-10. Links to these documents are provided below.

- [https://www.abor.asu.edu/1\\_the\\_regents/policymanual/chap5/5Section\\_C.pdf](https://www.abor.asu.edu/1_the_regents/policymanual/chap5/5Section_C.pdf)
- <https://www.asu.edu/aad/manuals/acd/acd125.html>
- <https://www.asu.edu/studentaffairs/studentlife/srr/index.htm>
- <https://www.asu.edu/aad/manuals/usi/usi201-10.html>

**Policy Against Threatening Behavior:** All incidents and allegations of violent or threatening conduct by an ASU student (whether on-or off campus) must be reported to the ASU Police Department (ASU PD) and the Office of the Dean of Students. If either office determines that the behavior poses or has posed a serious threat to personal safety or to the welfare of the campus, the student will not be permitted to return to campus or reside in any ASU residence hall until an appropriate threat assessment has been completed and, if necessary, conditions for return are imposed. ASU PD, the Office of the Dean of Students, and other appropriate offices will coordinate the assessment in light of the relevant circumstances. For more information, please visit <https://eoss.asu.edu/dos/Safety> , <https://eoss.asu.edu/dos/srr/codeofconduct> and <https://eoss.asu.edu/dos/safety/RespondBehavior>

### **Reporting Title IX Violations and Policy on Sexual Discrimination**

- Title IX is a federal law that provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university.
- If you or someone you know has been harassed on the basis of sex or sexually assaulted, you can find information and resources at <https://sexualviolenceprevention.asu.edu/faqs>
- As a mandated reporter, I am obligated to report any information I become aware of regarding alleged acts of sexual discrimination, including sexual violence and dating violence. ASU Counseling Services, which can be found at <https://eoss.asu.edu/counseling> , is available if you wish to discuss any concerns confidentially and privately.
- ASU online students may access 360 Life Services.

### **Additional Course Policies**

- Students are responsible for assigned material whether or not it is covered in class. Students are responsible for material covered in class whether or not it is in the text. Working regularly on assigned problems and attending class are essential in order to do well. Expect to spend at least 6-10 hours weekly on homework/labs. You are expected to read the text, preferably before the material is covered in class.
- Make-up exams and missed homework are at the discretion of the instructor and only in case of documented emergency.
- Cellular phones can be used in class only for classroom related activities (zoom polls, online quizzes). Quizzes may be given in class unannounced.
- All E-mail communication must be done from your ASU account. Due to FERPA (Family Educational Rights and Privacy Act), E-mails received from other accounts will not be answered.

**Inclusion:** The School of Mathematical and Statistical Sciences encourages faculty to address and refer to students by their preferred name and gender pronoun. If your preferred name is different than what appears on the class roster, or you would like to be addressed using a specific pronoun, please let your instructor know.