School of Mathematical and Statistical Sciences
Arizona State University

MAT 266: Calculus for Engineers II
Sample Syllabus

Course Description: Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, Taylor series.
Credits: 3
Prerequisites: MAT 265 or MAT 270 or equivalent course with C or better
Instructor:

- Email:
- **Office Hours:**

Resources:

- ASU Test reviews: https://math.asu.edu/mat266
- ASU Lecture Videos: https://mathcast.la.asu.edu:446/course_details/MAT266

Email

- When e-mailing me, include your full name, our class code (MAT 266), and our 5-digit section number found on MyASU (Section XXXXX).
- You MUST send all emails from your official ASU email account (not yahoo, gmail, etc – these go to spam).
- When I send Canvas announcements, they will go to your @asu.edu account. **You need to check this account regularly.**

Exams dates: add them to your calendar!

- Exam 1: (5.5, 6.1-6.5) - Jan 26
- Exam 2: (6.6, 7.1-7.4, 7.6, and 8.1) - Feb 12
- Chapter 8 Quiz: (8.2, 8.4, 8.5, 8.6, and 8.7) - Feb 23
- Final Exam: (Comprehensive) - Mar 3

ADMIN DROP:

In order to keep your seat in class, you must complete by the first deadline:

- *at least* 12 problems of HW 5.5
- *at least* 7 problems of HW 6.1

You need to keep up with the pace in the first weeks to be successful in this course.

Keys to Success:

- **Stay Informed:** Check the course page and your ASU email daily for announcements and messages.
- **Manage Your Time:** Complete assignments by their due dates. Plan ahead and create a study schedule to stay on track. See the course schedule in Module 0 and mark the exam dates in your calendar.
- **Engage:** Communicate regularly with your instructor and peers on the course discussion boards.
- **Use Your Resources:** Take advantage of the tools available on the **ASU Online Student Resources (https://asuonline.asu.edu/students/services)** page.
  Also, take advantage of **free ASU tutoring (https://tutoring.asu.edu/)**

Required Materials & Technology

Course Materials

- **Required Homework System:** Access to **Edfinity** is the only required purchase for this course. All homework, quizzes, and exams are on this platform.
- **Optional Textbook:** *Essential Calculus*, 2nd Ed. by James Stewart. This is a supplemental resource and is not required for any graded work.
- **Calculator Policy:** Hand-held calculators are not permitted on proctored exams. The web-based calculator **Desmos** will be available within Edfinity for all homework assignments and exams.

Technology Requirements

As a fully online course, the following technology is essential. It is your responsibility to ensure you meet these requirements before the drop/add deadline.

- **Computer:** A standard laptop or desktop computer running Windows 11 or macOS 13 (or newer, as required by Honorlock).
  - **Not Permitted for Exams:** Smartphones, tablets, or Chromebooks are not compatible with the proctoring software.
- **Webcam:** An **external, wired webcam is mandatory** for all proctored exams. A built-in laptop webcam is almost always insufficient. A cord of 5+ feet is highly recommended for proper positioning.
- **Internet:** A reliable, high-bandwidth broadband connection (DSL or cable). Mobile hotspots are not reliable enough for proctored exams.
- **Software:**
  - Google Chrome web browser.
  - A PDF reader (e.g., Adobe Acrobat Reader).

System Compatibility & Technical Support

- **System Check:** Verify your technology is compatible with **Honorlock requirements (https://app.honorlock.com/support/msr-check)**
- **ASU Help Desk:** For 24/7 assistance with Canvas or MyASU, use the **Help** icon in Canvas or call +1 (855) 278-5080.

Course Communication Policy

For Math Questions, Use Canvas Discussions

Post all math-related questions to **EdDiscussion** so everyone can benefit. Instructors will not answer math questions over email.

- **Posting Rules:**
  - Ask about one problem at a time
  - Clearly label it with section and problem number (Ex: question 6 on section 6.3)
  - Check that your question has not already been answered
  - Include a screenshot of the problem
  - Show all your attempted work, including any relevant calculations

- **Etiquette:** Be courteous, stay on topic, and keep the atmosphere professional. Use email for personal or grading concerns. No vulgar, demeaning, or aggressive language will be tolerated.
- **Response Time:** Do not expect immediate replies. Instructors check daily, but student-to-student discussion is highly encouraged.

For private matters such as grades, email your instructor directly.

- **Format:** Put **MAT 266** in the subject line.
- **ASU Email Policy:** ASU email is the official communication channel. You are responsible for checking it regularly. Use your ASU account for all correspondence and **do not** forward it to a personal account, as firewalls may block messages.

Emails sent from personal accounts will not be answered. **Do not use yahoo, gmail etc, only asu.edu.**

Failure to adhere to these communication policies may result in revoked posting privileges or administrative withdrawal from the course.

Course Evaluation and Grading

Assignment	Percentage
Test 1 (proctored)	22%
Test 2 (proctored)	23%
Chapter 8 Quiz	10%
FINAL (proctored)	30%
Edfinity Homework	15%

Grade	Percentage		Grade	Percentage
A+	97% - 100%		**B-**	80% - 82.9%
A	93% - 96.9%		**C+**	77% - 79.9%
A-	90% - 92.9%		**C**	70% - 76.9%
B+	87% - 89.9%		**D**	60% - 69%
B	83% - 86.9%		**E**	Below 60%

Assessment Content

- **Test 1 (Proctored):**
  Covers sections 5.5, 6.1-6.3, and 6.5, and Calc I review.
- **Test 2 (Proctored):** Covers sections 6.6, 7.1-7.4, 7.6, and 8.1.
- **Chapter 8 Quiz:** Covers sections 8.2, 8.4, 8.5, 8.6, and 8.7.
- **Final Exam (Proctored):** Comprehensive. About 50% from Test 1 & 2 material, and 50% from Chapters 8 & 9.

Assignments

Edfinity Homework System

- **Access:** Use Chrome or Firefox to access homework via the **Edfinity link** in our Canvas navigation menu. **Do not** go to edfinity.com directly.
- **Payment (as of 2026):**
  - Best Price ($48): Pay directly on the Edfinity site.
  - Bookstore ($60): Only use an access code from the **ASU Bookstore** (https://www.bkstr.com/arizonastatestore/product/edfinity-with-office-hours-610030-1) if required for financial aid.
- **Refunds:** There is a 14-day grace period for a full refund if you drop the course.

Procedures

- **Submission:** All work must be submitted through its designated assignment link in Canvas. Work sent via email will not be accepted unless specifically requested.
- **Deadlines:** All due dates are in **Arizona Time (MST)**, which does not observe daylight saving time. Use a time converter to find your local deadline. A full list of due dates is in the Course Schedule in Module 0.
- **Extensions:** For extensions due to a medical or other emergency, you must contact the instructor **before** the deadline.
- **Accommodations:** Follow the appropriate University policies to request an **accommodation for religious practices (http://www.asu.edu/aad/manuals/acd/acd304-04.html)** or to accommodate a missed assignment **due to University-sanctioned activities (http://www.asu.edu/aad/manuals/acd/acd304-02.html)**

Proctored Exam Procedures

Success on exams requires understanding the rules and preparing your technology in advance. Please review this section carefully.

Technology Requirements

- **Webcam:** An **external, wired webcam** is **mandatory** for all proctored exams.
- **Browser:** You must use the **Google Chrome** browser with the Honorlock extension.
- **Incompatible Setups:** Phone-as-webcam apps (like Camo) may not be reliable. Walmart's "ONN" brand webcams have known compatibility issues with Honorlock.
- If you are unable or unwilling to meet the external webcam requirement, you should drop this course before the drop/add deadline and enroll in an in-person section of the course.

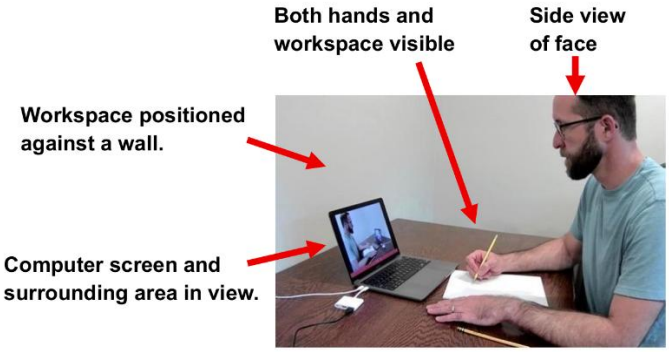
Required Task: Camera Positioning Test

Your webcam must provide a clear view of your face, hands, keyboard, computer screen, and entire workspace at all times. You must submit a photo of your setup for approval before exams are accessible.

- **Step 1:** Submit a photo of your webcam view via the "Camera Positioning Test -- Part 2: File Upload" assignment in Canvas.
- **Step 2:** If your setup is incorrect, you will receive feedback and must resubmit until it is approved.
- **Step 3:** You should use this approved setup for all exams. If you must take the exam in a different location, it is your responsibility to verify that all requirements are met, or else you will receive a score of 0.

Ideal Webcam Setup: Position your computer with its back against a wall and place the **external webcam** to your side. Your setup should look like this:

- The webcam is positioned to the side, clearly showing the student's face, hands, keyboard, computer screen, and the entire workspace.
- The student is using individual blank sheets of paper.
- The wall behind the computer is visible and clear.
- Only allowed items (paper, pens/pencils, erasers, computer, mouse, keyboard) are on the desk.
- The student is appropriately dressed for a live, proctored exam



Exam Structure & Rules

- **Availability:** Exams are open for a 30-hour window, starting at **6:00 PM AZ time** the day before the due date. They auto-submit at **11:59 PM AZ time** on the due date.
- **Duration:** You have up to **2 hours** to complete the exam once you begin. The timer does not stop if you close the browser.
- **Attempts:** Within this time window, you will have the opportunity to change your answers after checking if they are right or wrong, but only once.

- **Permitted Materials:**
  - **Scratch Paper:** Up to 8 single, blank sheets of paper. Notebooks and formula sheets are not permitted.
  - **ID:** Your ASU Sun Card or other valid, government-issued photo ID. Documents labeled "Not for identification" are not acceptable.
  - No physical calculators will be allowed, we will use **Desmos** instead.

- **Testing Environment:**
  - You must be **alone in a quiet room**.
  - No speaking, reading questions aloud, or background noise is permitted.
  - No bathroom breaks are permitted once the exam begins.

Academic Integrity & Prohibited Actions

Violating any of the following rules will result in a **permanent score of 0 on the exam** and may lead to further disciplinary action:

- Accessing any other internet-capable device (phone, tablet, etc.) for any reason.
- Failing to follow the approved webcam setup and testing environment rules.
- Failing to upload your original scratch paper on time.
- Taking photographs or screenshots of the exam.

- Posting any course materials (exams, solutions, etc.) to a non-ASU website.
- Using any unapproved screen-reader or browser tool during the exam.

How to Take Your Proctored Exam

1. In **Google Chrome**, go to the **Honorlock CLAS (iCourse)** tab in Canvas.
2. Select your exam to begin identity verification. Have your ID and blank scratch paper ready to show the camera.
3. Follow the Honorlock prompts to take a profile photo, show your ID, and complete a room scan.
4. Once verified, click **Open Site**. This will take you back to your Canvas course.
5. Navigate to the exam assignment and click the link to load the test in a new window. This will open Edfinity.
6. The exam will ask for a password. Click inside the password box on the Edfinity page first.
7. Next, click the **Unlock assessment** button in the Honorlock window. Honorlock will automatically enter the password for you.
8. You may now begin your exam.

Important: The Honorlock "Unlock your assessment" window often covers the Edfinity password box. You must click in the password box *before* clicking the **unlock assessment** button.

After the Exam: Required Scratch Paper Submission

This is a mandatory step to receive a grade for your exam.

- **Deadline: Within 30 minutes** of completing your exam.
- **Action:** Upload a **single PDF file** of your original, handwritten scratch paper to the corresponding Canvas assignment.
- **Rules:** Do not rewrite or neaten your notes. Failure to submit on time will result in a **grade of 0** for the exam.

University Policies

- **Roster Photo:** Per ASU policy, all students taking an online course must have an official photo on file with **Sun Devil Card Services (https://webapp 4.asu.edu/cardservices/).**
- **Proctoring:** This course uses ASU-vetted proctoring software (Honorlock) for exams. By taking this course, you agree to be

recorded, to the identity verification process, and to the **Honorlock (https://honorlock.com/honorlock-privacy-policy/)**and **Edfinity**

Failure to adhere to all exam procedures may result in a score of 0 on the exam and a final grade of XE (failure due to academic dishonesty). If you do not agree to these terms, you must drop the course before the deadline.

General Studies Requirement: Mathematics (MA)
This course fulfills the ASU General Studies requirement in Mathematics (MA). In this course, students will:

- Analyze and interpret mathematical concepts from multiple perspectives, including graphical, numerical, and analytical frameworks.
- Apply quantitative reasoning and mathematical modeling to solve problems from a variety of real-world and disciplinary contexts.

Credit Hour Equivalence:
A three-credit course is expected to take at least 135 hours of work. Expect to spend 18+ hours per week in a 7.5 week class, and 22.5+ hours per week in a 6-week class.

Failing grades (The E, EN and EU grades)

- The E grade is for students who participated in the class but did not earn enough credit to pass or attain the D grade.
- The EN grade is for student who never once participated in the class. At the instructor's discretion, any student who has not attended class during the first week of classes may be administratively dropped from the course. However, students should be aware that non-attendance would NOT automatically result in being dropped from the course. Thus, a student should not assume they are no longer registered for a course simply because they did not attend class during the first week. It is the student's responsibility to be aware of their registration status.
- The EU grade is for students who participated, but then stopped after a certain point and never resumed. Might result in losing scholarships or financial aid.
- The Y grades: will NOT be available in this course

Course Learning Outcomes
Upon successful completion of this course, students will have a robust understanding of integral calculus, infinite series, and alternate coordinate systems. Students will develop their analytical and problem-solving skills by demonstrating the ability to:

- Master Techniques and Applications of Integration
- Select and apply the most appropriate method to evaluate complex integrals, including substitution, integration by parts, trigonometric substitution, and partial fraction decomposition.
- Approximate definite integrals using numerical methods (Left/Right Endpoint, Midpoint, Trapezoidal, Simpson's Rule) and analyze their accuracy.
- Analyze and evaluate improper integrals involving infinite limits of integration or infinite discontinuities.
- Model and solve geometric problems, including calculating the area of regions, volumes of solids of revolution (using disk, washer, and shell methods), and the arc length of curves.
- Apply integration to solve real-world problems, such as calculating physical work and fluid force.
- Analyze Infinite Sequences and Series
- Determine the convergence or divergence of infinite sequences and find the limit of convergent sequences.
- Determine the convergence or divergence of infinite series using a variety of tests (e.g., Test for Divergence, Comparison Tests, Ratio Test).
- Construct Taylor and Maclaurin series to represent functions and understand the role of the remainder.
- Determine the radius and interval of convergence for a given power series.
- Manipulate known power series through differentiation and integration to derive new series representations.
- Work with Parametric and Polar Coordinate Systems
- Analyze, sketch, and convert equations between Cartesian, parametric, and polar forms.
- Apply calculus techniques to curves defined parametrically to find tangent lines, arc length, and the area of enclosed regions.
- Calculate the area of regions bounded by curves in the polar coordinate system.

University and Course Policies
ASU Online Course Policies:

The official **SU Online Course Policies (https://asuonline-dev.asu.edu/qm-template/CanvasQM/qm-policies.html)** are part of this syllabus. The version in effect at the start of the semester applies.

Accessibility Statements:
Review the **accessibility statements (https://asuonline-dev.asu.edu/qm-template/CanvasQM/qm-accessibility.html)** for all technologies used in this course.

Admin Drop information:
A student who has not attended any class or didn't do any HW during the first week of classes may be administratively dropped from the course. See requirements mentioned above. You need to keep up with the pace in the first weeks to be successful in this course. However, students should be aware that non-attendance will NOT automatically result in their being dropped from the course. Thus, a student should not assume they are no longer registered for a course simply because they did not attend class during the first week. It is the student's responsibility to be aware of their registration status. If you receive and ADMIN DROP email from your instructor, it is highly recommended contacting your academic advisor ASAP for more details.
Admin Drop will NOT result in a W grade.

AI Policy: All assignments in this course must be completed independently. While you may use Artificial Intelligence (AI) tools such as ChatGPT for guidance or clarification, you are still responsible for completing all homework problems on your own. Relying too heavily on AI will hinder your understanding of the material and could cause you to struggle on exams. We strongly encourage you to use ***Active Learning*** techniques to practice and master the content.
For more information, see Module 0.

Title IX: Sex-Based Discrimination, Harassment, and Violence
Title IX is a federal law that prohibits discrimination based on sex.

Resources: If you or someone you know has experienced sexual harassment or assault, you can find information and support at ASU's **Sexual Violence Prevention (https://sexualviolenceprevention.asu.edu/faqs)**

Mandatory Reporting: As your instructor, I am a mandated reporter. I am required to report any information I receive about alleged acts of sexual discrimination or violence to the university.
Confidential Support: For confidential discussions and support, please contact **ASU ounseling Services (https://eoss.asu.edu/counseling)** or **60 Life Services (https://goto.asuonline.asu.edu/success/online-resources.html)** for online students.

Syllabus Disclaimer: This syllabus is a guide for the course. Unforeseen events may require changes to the schedule. You are responsible for checking your ASU email and the course site regularly for updates.

Tentative Schedule

By This Date (11:59 pm AZ time) you should have this material completed.

week	Date	Assignment	Topic
Week 1	1/14/26	Syllabus Quiz	for Extra Credit
	1/15/26	5.5	The Substitution Rule
	1/15/26	6.1	Integration by Parts
	1/18/26	6.2	Trigonometric Integrals and Trigonometric Substitution
	1/19/26		Camera Positioning Test is due
Week 2	1/22/26	6.3	Partial Fractions
	1/22/26	6.4	Integration with Tables
	1/25/26	6.5	Approximate Integration
Week 3	1/26/26	Chapter 6 review	
	1/26/26	Test 1	proctored
	1/29/26	6.6	Improper Integrals
	1/29/26	7.1	Areas between Curves
	2/1/26	7.2	Volumes
Week 4	2/5/26	7.3	Volumes by Cylindrical Shells
	2/5/26	7.4	Arc length
	2/8/26	7.6	Applications to Physics and Engineering
Week 5	2/11/26	8.1	Sequences

	2/12/26	Chapter 7 review	
	2/12/26	Test 2	proctored
	2/15/26	8.2	Series
	2/15/26	8.4	Other Convergence Tests
Week 6	2/19/26	8.5	Power Series
	2/19/26	8.6	Representing Functions as Power Series
	2/22/26	8.7	Taylor series
Week 7	2/23/26	Chapter 8 review	
	2/23/26	Chapter 8 Quiz	not proctored
	2/26/26	9.1	Parametric Curves
	2/26/26	9.2	Calculus with parametric curves
	3/1/26	9.3	Polar Coordinates
	3/2/26	9.4	Areas and Length in Polar coordinates
Week of the Final	3/3/26	Chapter 9 review	
	3/3/26	Final exam	proctored