

Mat 266: Calculus for Engineers II

Course and Faculty Information

Course Description: Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, Taylor series.

Credits: 3

Prerequisites: Mat 265 or Mat 270 with C or better

Instructor: Katie Kolossa, Ph.D.

Contact Info: kolossa@asu.edu

Office: WXL 624

Office Hours: By appointment

Course Learning Outcomes

Learning outcomes are individually described for each module.

Textbooks

Essential Calculus, Early Transcendental, 2nd Edition, by James Stewart (Brooks/Cole)
ISBN: 9781285103235 or 9781133112280.

Students also can purchase access to the ebook directly from [WebAssign.net](https://www.webassign.net) or purchase Cengage Unlimited. They would simply need the course key from their instructor's specific section.

Students also can get a print rental when they activate WebAssign for an additional \$7.99 + free shipping or have the option to purchase a loose-leaf version of the textbook to keep.

Calculators

A graphing calculator is recommended. Graphing calculators which perform symbolic manipulation (e.g. TI89, TI92, Casio FX2 or 9970G) are not allowed for proctored tests. The allowed calculators are TI83, TI83Plus, TI84, TI84Plus, TI85, TI86, TI36xPro, CASIO FX9750GII, CASIO FX-CG10, TI-Inspire CX (note that TI-Inspire CX-CAS is **not** allowed).

Cell phone and internet device policy

Cell phones and any internet capable devices are not allowed during an exam (except for the computer you are working on)

All internet-capable devices must be turned off and be made inaccessible during all exams. Anyone who access such a device during an exam for any reason will receive a score of 0 for that exam and face possible further disciplinary measures.

Course Access

Your ASU courses can be accessed by both my.asu.edu and asu.instructure.com; bookmark both in the event that one site is down.

Computer Requirements

This is a fully online course; therefore, it requires a computer with internet access and the following technologies:

- Web browsers ([Chrome](#), [Mozilla Firefox](#), or [Safari](#))
- [Adobe Acrobat Reader](#) (free)
- [Adobe Flash Player](#) (free)
- Webcam, microphone, headset/earbuds, and speaker
- Microsoft Office ([Microsoft 365 is free](#) for all currently-enrolled ASU students)
- Reliable broadband internet connection (DSL or cable) to stream videos.

Note: A smartphone, iPad, Chromebook, etc. will not be sufficient for completing your work in ASU Online courses. While you will be able to access course content with mobile devices, you must use a computer for all assignments, quizzes, and virtual labs.

Student Success

To be successful:

- check the course daily
- read announcements
- read and respond to course email messages as needed
- complete assignments by the due dates specified
- communicate regularly with your instructor and peers
- create a study and/or assignment schedule to stay on track
- access [ASU Online Student Resources](#)

Grading

Your grade will be determined based on the following grading schema:

Grade	Percentage
A+	100% - 97%
A	96.9% - 93%
A-	92.9% - 90%
B+	87% - 89.9%
B	83% - 86.9%
B-	80% - 82.9%
C+	76% - 79.9%
C	70% - 75.9%
D	60% - 69%
E	Below 60%

Methods of Evaluation

Assignment	Percentage	Date
Test 1 (proctored)	22%	Monday 7/15
Test 2 (proctored)	23%	Monday 7/29
Chapter 8 Quiz	10%	Monday 8/5
FINAL (proctored)	30%	Tuesday 8/13
WeBWork	15%	
Optional Syllabus Quiz	2% Extra credit	Friday 7/5

Grades reflect your performance on assignments and adherence to deadlines. Grades on assignments will be available within 72 hours of the due date in the Gradebook.

Your grades will be available from Canvas. The weighted average will give you the current grades.

WebWork

Online Homework will be submitted online via the internet using the online homework system WebWork. WebWork contains questions pertaining to each topic, the due dates for which are listed on the website and in this syllabus. **No extension of due dates will be given.** The homework will count for 15% of the grade. Your final Webwork score is based on the OVERALL average of the homework.

In order to log on to WebWork, go to <https://webwork.asu.edu/> and login with your ASUrite ID and password. If you have trouble logging in into WebWork, email your instructor.

Midterm and Final Exam Procedures

Students will take two tests, a chapter quiz and one final exam. All tests will be administered through WebWork. Note sheets are not allowed on proctored tests. Firefox is the recommended browser to use. All tests and the Final will be proctored and they will count for 75% of the grade. These exams must be taken through RPNOW on a laptop or desktop. Tablets, Hybrid Devices, and Mobile Devices are not supported. External Camera's on Mac's aren't supported. And you need the latest version of Flash. Please check the RPNOW link in the Course Home to learn more about this proctoring service. The exams will be available for a period of 30 hours during which you can access it at any time. However, once you access it, you will have two hours to complete it (provided you access the test before 9:59pm on the day it is due). Note: anyone using a camera device, other than the webcam, for any reason during an online assessment will receive a score of 0 for that exam, and face possible further disciplinary measures.

According to ASU policy, all online students are required to have an official photo on file with the university. If you do not have an official photo on file, please click on this link to upload one: <https://webapp4.asu.edu/cardservices/>. There is no charge for uploading the picture. Test grades will be withheld if the student does not have an official photo on file. Grades will also be withheld if the Academic Integrity Agreement is not submitted.

There will be one extra credit opportunity for the class by taking the optional Syllabus Quiz for up to 2% overall grade. It will be included in your grade toward the end of Module 3.

Test 1: (proctored) Monday 7/15 (available from 6:00pm AZ time the day before to 11:59pm AZ time). Covers 5.5, 6.1-6.5

Test 2 (proctored): Monday 7/29. (available from 6:00pm AZ time the day before to 11:59pm AZ time). Covers 6.6, 7.1-8.1

Chapter 8 Quiz: Monday 8/5 (available from 6:00pm AZ time the day before to 11:59pm AZ time). Covers 8.2-8.7

Final Exam (proctored): Tuesday 8/13. (available from 6:00pm AZ time the day before to 11:59pm AZ time). Comprehensive.

NOTE: Any photograph or screenshot taken during an exam is grounds for a 0 score on the test and academic dishonesty charges.

No phones or any internet-capable device can be accessed for any reason during a proctored exam. Accessing any such device for any reason will result in a score of 0 for the exam. This includes smart-watches. Your instructor reserves the right to ask you to remove your watch during an exam. Notes or "cheat sheets" are not allowed during proctored exams. The only window open during your exam should be the one with the test.

Any (parts of) exams, assignment, reports, or solutions to these, from current or previous semester, posted to any website not affiliated with ASU will result in academic integrity disciplinary actions against the students posting them and the students using them.

Students in face-to-face or online courses taking exams and quizzes at Arizona State University should expect to be proctored. The process includes verifying the identity of the student and providing either live proctors or other forms of proctoring during the exam or quiz. Proctoring of online students requires presenting a valid identification card as part of the verification process and monitoring by online proctoring software.

ASU contracts with three online proctoring software companies. Each company has been carefully reviewed for software security and the protection of student data and must meet the standards of the ASU Internet Security Office. In addition, any company employee, including proctors, who would have access to student data must have a background check and be finger printed. Students can take exams in any location that has a reliable Internet connection. It is best to select a quiet location where the student can be alone in a room.

The proctoring service records you and your environment during the exam and requires that you download a temporary program onto your computer. If you do not wish to do this, then you should withdraw from the course.

Submitting Assignments

All assignments, unless otherwise announced, **MUST** be submitted to the designated area of Canvas and Webwork. Do not submit an assignment via email.

Assignment due dates follow Arizona Standard time. Click the following link to access the [Time Converter](#) to ensure you account for the difference in Time Zones. Note: Arizona does not observe daylight savings time.

Late or Missed Assignments

Notify the instructor **BEFORE** an assignment is due if an urgent situation arises and you are unable to submit the assignment on time.

Follow the appropriate University policies to request an [accommodation for religious practices](#) or to accommodate a missed assignment [due to University-sanctioned activities](#).

Communicating With the Instructor

Piazza

This course uses a discussion board called "Piazza" for general questions about the course. Piazza is a forum site specifically created for math and science courses. It features a clean interface that makes following threads easier, the threads are sortable and searchable, and provides the ability to enter symbolic mathematics. It is a collaborative site in which students are encouraged to post questions and other students are encouraged to offer assistance. The instructor and any teaching assistants will also monitor Piazza regularly, offering feedback whenever necessary. **Prior to posting a question, please check the syllabus, announcements and existing posts.** If you do not find an answer, post your question.

Piazza is built into every online course shell and is a required aspect of the course. The instructor will also post messages to the class through this site. Thus, it is the student's responsibility to be properly signed up in Piazza as directed by the instructor. If you have any problems or feedback for the developers email

team@piazza.com.
Find our class page at:

Student Rules of Engagement (Piazza):

- All questions related to classwork should be posted to Piazza. Any homework or classwork questions emailed directly to the instructor will not be answered.
- Please include the section number and question number in the header (e.g. Section 1.2, exercise 7).
- Please include a couple lines of your work. You may also photograph your written work and insert the image within the post. Please trim the image size if possible.
- Please be courteous at all times. No vulgar, demeaning, or aggressive language will be tolerated.
- Do not use Piazza to air grievances or to campaign.
- Do not use Piazza for personal messages. In such a case, email the instructor directly.
- Stay on topic. Do not use Piazza for discussions not related to this class.
- Keep a civil and friendly atmosphere. Piazza works best when we have a lot of students willing to engage the forum.
- Please do not expect immediate replies. Instructors usually check the forum daily. In the meantime, other students are encouraged to add feedback and commentary. Instructors may also deliberately stay in the background so as to promote student-led discussions.

Failure to adhere to these requirements may result in your posting privileges being revoked.

Community Forum

This course does not use "Community Forum" for general questions and comments about the course.

Chat

This course does not use the "Chat" function. Post content related questions in Piazza and email for other personal related questions.

Email

ASU email is an [official means of communication](#) among students, faculty, and staff. Students are expected to read and act upon email in a timely fashion. Students bear the responsibility of missed messages and should check their ASU-assigned email regularly.

All instructor correspondence will be sent to your ASU email account and you are expected to use your ASU email for all course related correspondence.

ASU Online Course Policies

View the [ASU Online Course Policies](#).

Accessibility Statements

View the [ASU Online Student Accessibility](#) page to review accessibility statements for common tools and resources used in ASU Online courses.

If any other tools are used in this course, links to the accessibility statements will be listed below this sentence.

Syllabus Disclaimer

The syllabus is a statement of intent and serves as an implicit agreement between the instructor and the student. Every effort will be made to avoid changing the course schedule but the possibility exists that unforeseen events will make syllabus changes necessary. Remember to check your ASU email and the course site often.

Optional Practice Problems

There is no written homework collected but following problems are strongly recommended for your practice.

SECTION PROBLEMS FROM TEXTBOOK

5.5 1-19 odd, 33, 35, 37, 39, 40, 45, 46, 48

6.1 1, 2, 5, 9-12, 17, 20, 22, 23

6.2 2, 4, 5, 7, 9, 17, 18, 19, 20, 39-44

6.3 1-3, 7-10, 15, 17, 19, 21, 23

6.4 3-6, 10, 19, 21

6.6 3, 5, 6, 8, 9, 13, 16, 17, 21, 23, 24, 30, 32

6.5 1, 2, 3, 8, 15, 29, 33

7.1 1-4, 8, 9, 12, 15, 29

7.2 2-5, 9, 12, 13, 14, 32, 33, 38, 41, 42, 43

7.3 2-6, 10, 11, 15, 17

7.4 2, 3, 7, 9, 12, 15

7.6 1, 2, 5, 6, 9, 10, 12, 15, 16, 17, 18

8.1 3, 4, 6, 8, 9, 11, 14, 17, 18, 24, 27, 29

8.2 7-10, 15, 18, 21, 25, 26, 31, 32, 39

8.4 2, 19, 20, 21, 24, 25, 26

8.5 3, 5, 7, 8, 9, 11, 14, 15, 18

8.6 3-8, 13, 15, 16, 26, 28, 29

8.7 2, 4-7, 11-14, 18, 23- 25, 27, 32, 36, 37, 41, 47, 48, 52, 53, 54

8.8 3, 6, 7 (optional section)

9.1 5-8, 11-18

9.2 3-5, 9-11, 13, 14, 16, 17, 18, 26, 28, 29, 37, 39

9.3 3, 5, 7, 10, 13, 16, 17, 46, 47, 49, 51, 52

9.4 1, 2, 5-8, 11, 15, 33, 34, 35