

MAT 210: Brief Calculus

Instructor:	Email:
Homework site: http://webassign.net	ASU Blackboard/Canvas site: myasucourses.asu.edu
Office:	Office Hours:

The instructor reserves the right to make changes to this syllabus as necessary.
Any such changes will be announced in class and updated in the online syllabus.

ASU Catalog Description:

Differential and integral calculus of elementary functions with applications. Not open to students with credit in MAT 265 or 270.

Course Materials:

- Text: *Finite Mathematics & Applied Calculus*, Waner & Costenoble, Cengage Publishing, 7th ed. (**optional**)
- WebAssign access (**required**)
- Graphing Calculator (**required**)

Examples of highly recommended models are the TI 83/84, TI Nspire CX, Casio 9850 GB Plus, or Casio Prizm. Calculators with QWERTY keyboards or that perform symbolic algebra are not permitted. For example, the TI-89, TI Nspire CAS, Casio FX2 or Casio 9970Gs **cannot** be used.

Graphing Calculator Workshops:

If you have a Texas Instruments graphing calculator TI 83/84 and would like to learn more about using it. A free workshop is available on

Jan. 16, 2019	6 – 8 PM	NEEB 105
Jan. 17, 2019	6 – 8 PM	NEEB 105

The workshop topics are the same on either day. At the workshop, you will learn calculator skills useful in College Algebra and Brief Calculus, such as computation, graphing, determining local maximum and minimum points of functions, and regression.

Lecture Schedule:

Week of:	sections	Week of:	sections	Week of:	sections
Jan 7	Intro, 10.1, 10.2	Feb 25	12.3, 12.5	Apr 15	Review, Exam 3
Jan 14	10.3, 10.4, 10.5	*Mar 4	Spring Break	Apr 22	14.5, Review
*Jan 21	10.6, 11.1	Mar 11	12.6, Review		
Jan 28	11.2, 11.3, 11.4	Mar 18	Exam 2 , 13.1, 13.2	May 2 7:10-9:00 PM	Final Exam
Feb 4	Review, Exam 1	Mar 25	13.3, 13.4		
Feb 11	11.5, 11.6	Apr 1	14.1, 14.2		
Feb 18	12.1, 12.2	Apr 8	14.3, 14.4		

***University Holidays (no classes):** Martin Luther King Jr. Holiday: Monday, January 21; Spring Break: March 3-10.

Other Important Dates: First day of classes = January 7; Course Withdrawal Deadline = March 31; Complete Session Withdrawal Deadline = April 26.

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Exam 1	Friday, Feb 8, during regular class period	Material covered: 10.1-10.6 and 11.1-11.3
Exam 2	Monday, Mar 18, during regular class period	Material covered: 11.4-11.6 and 12.1-12.6
Exam 3	Friday, Apr 19, during regular class period	Material covered: 13.1-13.4 and 14.1-14.3
Final Exam	Thursday, May 2, 7:10 PM - 9:00 PM Location: TBA	Comprehensive

Grade Components:

Homework	12.5%
Quizzes	12.5%
Exam 1, 2 and 3	50%
Final Exam	25%

Grading Scale: This course utilizes +/- grading.

A+ = [97,100]; A = [93,97]; A- = [90,93]; B+ = [87,90); B = [83,87); B- = [80,83);
 C+ = [77,80); C = [70,77); D = [60,70); E = [0,60)

Section Topics:

10.1 Limits: Numerical and Graphical Viewpoints	11.4 The Chain Rule	13.1 The Indefinite Integral
10.2 Limits and Continuity	11.5 Derivatives of Logarithmic and Exponential Functions	13.2 Substitution
10.3 Limits and Continuity: Algebraic approach	11.6 Implicit Differentiation	13.3 The Definite Integral: Numerical and Graphical Viewpoints
10.4 Average Rate of Change	12.1 Maxima and Minima	13.4 The Definite Integral: Algebraic Viewpoint and the Fundamental Theorem of Calculus
10.5 Derivatives: Numerical and Graphical Viewpoints	12.2 Applications of Maxima and Minima	14.1 Integration by Parts
10.6 Derivative: Algebraic Viewpoint	12.3 Higher Order Derivatives: Acceleration and Concavity	14.2 Area between Two Curves and Applications
11.1 Derivatives of Powers, Sums, and Constant Multiples	12.4 Analyzing Graphs	14.3 Averages and Moving Averages
11.2 A First Application : Marginal Analysis	12.5 Related Rates	14.4 Applications to Business and Economics: Consumers' and Producers' Surplus and Continuous Income Streams
11.3 The Product and Quotient	12.6 Elasticity	14.5 Improper Integrals

Homework: Practice problems are assigned through WebAssign software found at <http://webassign.net>. **The cost is \$100** for homework access with online e-book access. Problems are assigned through this software program to provide immediate feedback on conceptual, numerical and algebraic solutions, and there are links to the online text to support your understanding of the questions. The due dates for this work are listed on the site. You may work ahead on any of these assignments, but no due date extensions will be given. There are **5 attempts allowed for each HW question**.
The class key that you will need to enroll yourself:

FOR SLN:

CLASS KEY is:

Quizzes: Short quizzes will be given in class frequently. Quizzes will cover recent lecture material and may or may not be announced in advance. No make-up quizzes will be given except in cases of excused absences (see attendance policy). Missed quizzes will count as 0s in the student's grade.

Exams: The **three mid-term** exams will be taken in **the classroom**, and will be designed to take the average student approximately **45 to 50 minutes** to complete. Students will be required to show ASU identification in order to receive an exam. Exams will focus on concepts and applications of calculus as opposed to procedural calculations. The final exam is comprehensive and takes place during final exam week. The location of the final will be announced by the instructor later in the term. No cell phones or any internet-capable devices are allowed on tests. They must be turned off and made inaccessible for the duration of the test. **Accessing a cell phone or internet-capable device for any reason during the test will result in a score of 0 for that test and possible further sanctions through the Dean's office.**

Make-up Exams: Make up exams are given at the discretion of the instructor and **only** in the case of verified medical or other documented emergencies. Students should notify the instructor before the exam is given if possible. Call the Undergraduate Math Office (480) 965-3951 and leave a message or directly notify the instructor via email. If the event is not an emergency, the instructor must be notified in advance to request a make-up. The instructor is not required to accommodate you.

Technology Usage Policy: Any student who accesses a phone or any internet-capable device during a quiz or exam for any reason automatically receives a score of zero on the assessment. All such devices must be turned off and put away during quizzes and exams. Photography and Audio/Video recording in the classroom are prohibited except when authorized through DRC. Any student engaging in such behaviors will be asked to leave. Repeat offenses may result in withdrawal for disruptive behavior as per [SSM 201-10](#)

Attendance Policy:

- Attendance is mandatory and will be taken daily. Be on time. If you miss attendance, you are absent.
- A maximum of **4** absences is allowed for classes meeting twice per week and **6** absences is allowed for classes meeting 3 times a week.
- The only "excused" absences are those for university-sanctioned activities, jury duty, military obligations, or religious observances. (In other words, the permitted 4 absences are to allow for illness and emergency) Students with an upcoming excused absence should make arrangements to obtain handouts and complete graded classwork

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in advance of the absence.

- Students who exceed the permitted number of absences **may receive the grade of E for chronic absenteeism.**

Class Expectations:

- Come to class on time with your notes and a calculator
- Ask questions or come to office hours if you'd like further explanation or examples
- Review your notes daily to prepare for quizzes and upcoming tests
- Read the text in advance to prepare for the next day's new material
- Leave cell phones, laptops, and other electronics off and put away while in the classroom

Student Resources:

- The Math Tutoring Centers in WCLR 116 and BAC 16 (<https://math.asu.edu/resources/math-tutoring-center>) are open Monday through Friday, and are free for ASU students taking 100-200 level math courses. Bring your SunCard. See website for hours and phone numbers.
- **University Academic Success Programs:** (<http://tutoring.asu.edu>) provides counseling, in-person and online tutoring (in math *and* other subjects), supplemental instruction, and various other types of support to students. See the website for more information.

Please come see me during office hours if you have any questions or concerns, or if you are registered with DRC and will require accommodations in this class.

University Policies and Procedures

For semester deadlines related to enrollment, withdrawal or payments, see the academic calendar available at <http://students.asu.edu/academic-calendar>

Course Withdrawal: A student who has not already received an EN grade may withdraw from a course with a grade of W during the withdrawal period. The instructor's signature is not required. It is a student's responsibility to verify that that they have in fact withdrawn from a class.

The grade of Incomplete: A grade of Incomplete will be given only in the event that a documented emergency or illness prevents the student who is doing acceptable work (C or better) from completing a small percentage of the course requirements. The guidelines in the current general ASU catalog regarding a grade of incomplete will be strictly followed.

Instructor-Initiated Drop: 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 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.

Final Exam Make-up Policy: The final exam schedule listed in the Schedule of Classes will be strictly followed. Exceptions to the schedule and requests for make-up final examinations can be granted only by the Department Chair, Associate Department Chair, or the Director of First Year Mathematics, and for one of the following reasons:

1. Religious conflict (e.g., the student celebrates the Sabbath on Saturday)
2. The student has more than three exams scheduled on the same day as the math final
3. There is a time conflict between the math final and another final exam.

Academic Honesty is expected of all students in all examinations, papers, laboratory work, academic transactions and records. The possible sanctions include, but are not limited to, appropriate grade penalties, course failure (indicated on the transcript as a grade of E), course failure due to academic dishonesty (indicated on the transcript as a grade of XE), loss of registration privileges, disqualification and dismissal. For more information, see <http://provost.asu.edu/academicintegrity>. Moreover, any (parts of) exams, assignments, reports, or solutions to these, from current or previous semesters, 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.

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: It's 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. For the university's complete policy regarding ethics, including cheating, plagiarism and other forms of academic dishonesty, see the Student Academic Integrity Policy at the following web address: <http://provost.asu.edu/academicintegrity>

Student Conduct Statement: Students are required to adhere to the behavior standards of the Arizona Board of Regents Policy Manual [Code of Conduct](#), Academic Affairs Manual 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 according to procedures of the Student Services Manual [SSM 201-10](#).

Title IX:

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, <https://eoss.asu.edu/counseling>, is available if you wish discuss any concerns confidentially and privately.

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.