Instructor: Richard Reynolds
Email: rich@asu.edu

Homework site: http://webassign.net
ASU Blackboard/Canvas site: myasucourses.asu.edu
Office: ECA 206
Office Hours: Mon-Wed 2:30-3:30pm, Fri 11:45-12:45pm

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:
• 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

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Jan. 16, 2019</td>
<td>6 – 8 PM</td>
<td>NEEB 105</td>
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<tr>
<td>Jan. 17, 2019</td>
<td>6 – 8 PM</td>
<td>NEEB 105</td>
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</tbody>
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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:

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

**Grade Components:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>12.5%</td>
</tr>
<tr>
<td>Quizzes</td>
<td>12.5%</td>
</tr>
<tr>
<td>Exam 1, 2 and 3</td>
<td>50%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
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</tbody>
</table>

**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 Rules | 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.

Class key that you will need to enroll yourself:

FOR Class Number: 10344  (MWF 12:55-1:45pm)  CLASS KEY is: asu 3787 0613

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.

We will be using the student response system, TurningPoint 8. Therefore, a clicker will need to be purchased, and a student account set up. To learn more, visit https://uto.asu.edu/services/tools/clickers/students and https://uto.asu.edu/sites/default/files/turning_knowledge_article.pdf.

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.

Bathroom Breaks during exams policy:
You are not permitted to go to the bathroom during midterm exams. Please go to the bathroom before you start your exam. If you go to the bathroom during the exam, that ends your testing period. If you have a medical condition that may require you to go to the bathroom during exams, you must provide documentation to your instructor in advance.

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.

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 WXLR 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 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,
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.