Prerequisite: MAT 170 with C or better or completed the ALEKS Calculus Placement Exam with a score of 60% or higher or the Calculus Placement Exam with a score 36 or higher.

When you contact your instructor, put “MAT 251” and class time into the subject line. Due to FERPA, your instructor cannot answer grade related questions or discuss grades by email. You MUST send all email from your official ASU email account. Emails that are not sent from that account may be ignored.

Course Description: Differential and integral calculus of elementary functions. Emphasizes applications to the life sciences. Not open to students with credit in MAT 210, 265, or 270. 3 credits, fulfills university general studies MA requirement.


Graphing Calculator: A graphing calculator is required for this course. Examples of highly recommended models are the TI 83/84 or TI n-spire (NOT the n-spire CAS) or Casio 9850GB Plus. Calculators with QWERTY keyboards or those that do symbolic algebra, such as the Casio FX2, Casio 9970Gs, Ti n-spire CAS, TI-89, or TI-92 may not be used in class. **NO CALCULATORS are permitted during the exams.**

Attendance:
- Attendance will be taken on a regular basis as studies have shown that students that attend class regularly are more likely to complete their courses successfully.

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/iPod 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 withdraw can be found at [http://clas.asu.edu/classroom/disruptive](http://clas.asu.edu/classroom/disruptive).

Technology Usage Policy: Any student who accesses a phone, camera, 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.
# TENTATIVE SCHEDULE

<table>
<thead>
<tr>
<th>Week of</th>
<th>Topics</th>
<th>Comments</th>
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<tbody>
<tr>
<td>8/16 – 8/17</td>
<td>Orientation, online homework</td>
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<tr>
<td>8/20 – 8/24</td>
<td>2.1: Limits &amp; Continuity: Numerically &amp; Graphically</td>
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<td>2.2: Limits Algebraically</td>
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<td>8/27 – 8/31</td>
<td>2.3: Average Rates of Change, Difference Quotient</td>
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<td>2.4: Differentiation Using Limits of Difference Quotients</td>
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<td>9/3 – 9/7</td>
<td>2.5: Differentiation Techniques</td>
<td>9/3 – No Classes (Labor Day)</td>
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<td>9/10 – 9/14</td>
<td>2.6: Instantaneous Rates of Change</td>
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<td>2.7: Differentiation Techniques: Product Rule &amp; Quotient Rule</td>
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<td>Plus Trig Derivatives</td>
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<td>9/10 – 9/14</td>
<td>2.8: The Chain Rule</td>
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<td>9/17 – 9/21</td>
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<td>Exam 1 (2.1 – 2.8): 9/21</td>
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<td>9/24 – 9/28</td>
<td>3.1: Using first derivatives to find min/max values</td>
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<td>3.2: Using second derivatives to find min/max values</td>
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<td>3.4: Using derivatives to find absolute max &amp; min</td>
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<td>10/1 – 10/5</td>
<td>3.5: Optimization (Max / Min problems)</td>
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<td>3.7: Implicit Differentiation and related rates</td>
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<tr>
<td>10/8 – 10/12</td>
<td>Exponential and Logarithmic Function Review</td>
<td>Fall Break (10/6 – 10/9) – No Classes</td>
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<td>10/15 – 10/19</td>
<td>4.1 &amp; 4.2: Derivatives Exponential and Logarithmic functions (base e)</td>
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<td>4.3: Exponential Growth</td>
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<td>4.4: Exponential Decay</td>
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<td>10/22 – 10/26</td>
<td>4.4: Newton's Law of Cooling</td>
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<td>4.5: The derivatives of a^x and log_a x.</td>
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<tr>
<td>10/29 – 11/2</td>
<td>5.1: Integration (Basic Integrals)</td>
<td>Exam 2 (3.1,3.2, 3.4,3.5,3.7,4.1 – 4.5) 10/31</td>
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<tr>
<td>11/5 – 11/9</td>
<td>5.2: Definite Integrals (Geometric Approach)</td>
<td>Course Withdrawal Deadline – 10/31</td>
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<td>5.3: Fundamental Theorem of Calculus</td>
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<td>11/12 – 11/16</td>
<td>5.4: Properties of definite integrals</td>
<td>No Class (11/12) Veteran’s Day</td>
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<td>5.5: Integration: Substitution Method</td>
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<td>11/19 – 11/23</td>
<td>5.6: Integration by parts</td>
<td>11/22 &amp; 11/23 - No Classes (Thxgiv)</td>
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<td>11/26 – 11/30</td>
<td>Regression and Analysis Review</td>
<td>Complete session withdrawal deadline: 11/30</td>
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<tr>
<td>12/3 – 12/8</td>
<td>FINAL EXAM WEEK</td>
<td>Exam 3 (5.1 – 5.6, Regression)</td>
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### Grading

**Distribution:** Exams 1, 2, and 3 20% each
- Homework 20%
- Quizzes 20%

**Grading Scale:** 97 – 100% A+, 93 – 96.9% A, 90 – 92.9% A-, 87 – 89.9% B+, 83 – 86.9% B, 80 – 82.9% B-, 77 – 79.9% C+, 70 – 76.9% C, 60 – 69.9% D, 0 – 59.9% E

### Video Resources

Videos for the content may be viewed at vidman.asu.edu website and https://math.la.asu.edu/~surgent/video.

### Withdrawal

A student may withdraw from a course with a grade of W during the course withdrawal period. The instructor's signature is not required.

**The grade of Incomplete:** A grade of incomplete will be awarded only in the event that a documented emergency or illness prevents the student who is doing acceptable work 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.

**Homework:**
- Homework will be submitted online via the internet using the online homework system MyMathLab. It can be either your own computer or one in any of the ASU computer labs.
- To log onto MyMathLab, go to [http://pearsonmylabandmastering.com/](http://pearsonmylabandmastering.com/)
  You will need 3 items to register for MyMathLab:
  1. Course ID – reynolds34385
  2. Valid access code (from text book or online registration)
  3. Valid email address

Further instructions regarding MyMathLab will be given in class.

**Quizzes:** Homework and quizzes will be graded. Students may work together on homework, but each individual student is required to submit their own work. Regular quizzes will be given and frequently reflect material that has recently been discussed in class. Students are expected to read relevant sections of the textbook prior to attending class.

**Students Resources:**
- **Tutor Center:** The Math Tutor Center (free of charge) in PSA 116. Check the website for availability: [http://math.asu.edu/mathtutors](http://math.asu.edu/mathtutors)
  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 must present their valid ASU Sun Card.

- **ASU Learning Support Services (LSS):** Learning Support Services uses a peer-assisted model to provide academic support and learning opportunities that foster students’ academic, personal, and professional success. LSS staff members are professionally trained to assist peers in achieving academic success. Check the website for availability: [http://studentsuccess.asu.edu/](http://studentsuccess.asu.edu/)

**Class Content, Teacher Expectations, Studying for the Class and Examinations**

**Attendance** is expected. Your instructor may take regular attendance and incorporate attendance into your grade.

**Quizzes (ASU clickers-TurningPoint):** Quizzes will be given almost every class and will frequently reflect material that has recently been addressed. 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](https://uto.asu.edu/services/tools/clickers/students).

**Homework** will be submitted online through WeBWorK. (Click on your instructor’s name at [https://webwork.asu.edu](https://webwork.asu.edu).) Students are also responsible for reading each section before it is taught in class. For best results on the tests (especially the final exam), do not use the work of others (including Wolfram Alpha) to answer the problems.

**Piazza:** The class will use Piazza ([https://piazza.com](https://piazza.com)) for class discussions. Piazza is the appropriate place to ask a question about the material or homework. The advantage of using Piazza is that if you ask a question and someone answers it, everyone else can benefit as well. Piazza is a collaborative site in which students are encouraged to post questions and other students are
encouraged to offer assistance. The instructor monitors Piazza regularly, offering feedback whenever necessary.

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 11.2, #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. Those should be sent by email to the instructor directly.
- Stay on topic. Do not use Piazza for discussions not related to this class.
- Keep a civil and friendly atmosphere so that there are 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.

Exams: There will be three midterm exams given during the semester. Non CAS graphing calculators are allowed on the exams, but graphing calculators that do symbolic algebra are not allowed on the exams (see above). Your calculator may be viewed during exams and it will be taken away if it is a CAS calculator or have its memory cleared if anything suspicious is written therein. The Instructor has the right to regard any suspicious material in your calculator memory as cheating. Any student who accesses a phone or any internet-capable/camera device during an exam for any reason automatically receives a score of zero on the exam and possible further disciplinary measures. All such devices must be turned off and put away and made inaccessible during the exam.

Makeup exams are given at the discretion of the instructor and only in the case of verified medical or other emergency, which must be documented. The instructor must be notified before the test is given.

There are no test retakes or “corrections”, and no lowest test will be dropped, nor will you receive extra credit assignments to erase the consequences of a bad test.

Picture ID requirement for testing: for each exam you have to bring picture ID. On the exams, show your ID when you turn in your test. If you cannot show picture ID, instructors or proctors may take your picture with your test. If you do not consent to that, they do not have to accept your test.

Reviews: Reviews and old exams are posted on the school’s website at https://math.asu.edu/resources/math-courses/mat251

It would also be a good idea to study a diverse sample of homework problems given in the textbook for additional review.

COURSE POLICIES

- Students are responsible for assigned material. Students are responsible for material covered in class whether or not it is in the text.
- Working regularly on assigned problems and attending class is essential to success.
- You are expected to read the text, preferably before the material is covered in 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 of Liberal Arts and Sciences. Under this schedule, if a conflict occurs, or a student has more than three exams on one day, the instructors may be consulted about an individual schedule adjustment. If necessary, the matter may be pursued further with the appropriate dean(s). This procedure applies to conflicts among any combination of Downtown Phoenix campus, Tempe campus, Polytechnic campus, West campus, and/or off campus class. 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.

**Classroom behavior, etiquette and academic integrity policies**

- **Students with Disabilities** Disability Accommodations: Qualified students with disabilities who will require disability accommodations in this class are encouraged to make their requests to me at the beginning of the semester either during office hours or by appointment. Note: Prior to receiving disability accommodations, verification of eligibility from the Disability Resource Center (DRC) is required. Disability information is confidential.

- **Establishing Eligibility for Disability Accommodations** Students who feel they will need disability accommodations in this class but have not registered with the Disability Resource Center (DRC) should contact DRC immediately. Their office is located on the first floor of the Matthews Center Building. DRC staff can also be reached at: 480-965-1234 (V), 480-965-9000 (TTY). For additional information, visit: www.asu.edu/studentaffairs/ed/drc. Their hours are 8:00 AM to 5:00 PM, Monday through Friday.

- **Policy on 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.

- **Classroom behavior: Make sure you arrive on time for class** Excessive tardiness will be subject to sanctions. **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/iPod player, text messaging, constant talking, eating food noisily, reading a newspaper will not be tolerated. The use of laptops (unless for lecture note taking), cell phones, MP3, IPOD, etc are strictly prohibited during class. 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/resources/disruptive-behavior](https://clas.asu.edu/resources/disruptive-behavior).

- **Absences related to religious observances/practices:** If you will be absent from class due to a religious observance or practice, it is your responsibility to inform the instructor as soon as possible. Your instructor will work with you on alternative and reasonable arrangements for any time missed.

- **Absences related to university sanctioned events and activities:** If you will be absent from class due to participation in a university sanctioned event/activity, it is your responsibility to inform the instructor as soon as possible. Your instructor will work with you on alternative and reasonable arrangements for any time missed.

- **Academic Integrity:** 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](http://provost.asu.edu/academicintegrity).
Students are expected to maintain the highest ethical standards at all times and in all dealings and interactions with fellow students, faculty, teaching assistants and staff.

Withdrawal: A student may withdraw from a course with a grade of W during the withdrawal period. The instructor's signature is not required. A complete withdrawal must be done in person and that it involves withdrawing from all ASU classes, not just Math 267. Students will not be withdrawn if they merely stop coming to class. It is a student's responsibility to verify whether they have in fact withdrawn from a class.

The grade of Incomplete: A grade of incomplete will be awarded only in the event that a documented emergency or illness prevents the student who is doing acceptable work from completing a small percentage of the course requirements. The incomplete is not a “get out of jail free” card and cannot be used as an alternative to withdrawal, or as a way to re-take the class for free. The guidelines in the current general ASU catalog regarding a grade of incomplete will be strictly followed.

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.

Note: This syllabus is tentative and should not be considered definitive. The instructor reserves the right to modify it (including the dates of the tests) to meet the needs of the class. It is the student responsibility to attend all class meetings and to make note of any changes. The instructor also reserves the right to create class policies in regards to homework due date, late assignments, etc.