MATH 2312: Precalculus, Spring 2020

Contact Information

Instructor: Ashlee Fuchs
Office: MCS 220E
Office Phone: (325) 486-5433
e-mail: Ashlee.Fuchs@angelo.edu

Open Office Hours:
Monday: 9:00am – 10:00am; 11:00am – 12:00pm; 2:00pm – 3:00pm
Tuesday: 2:00pm – 3:30pm (in the Math Lab – Lib 330)
Wednesday: 9:00am – 10:00am; 11:00am – 12:00pm; 2:00pm – 3:30pm
Friday: 9:00am – 10:00am; 11:00am – 12:00pm
or by appointment

Textbook


Blackboard

This course has an associated Blackboard page where you will have access to grades, assignments, class notes, and other course-related items.

Grading System

The final average will be determined according to the weights in the table that follows.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Date</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam I</td>
<td>Friday, 02/07</td>
<td>15%</td>
</tr>
<tr>
<td>Exam II</td>
<td>Friday, 03/06</td>
<td>15%</td>
</tr>
<tr>
<td>Exam III</td>
<td>Friday, 04/03</td>
<td>15%</td>
</tr>
<tr>
<td>Exam IV</td>
<td>Friday, 04/24</td>
<td>15%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Monday, 05/04</td>
<td>25%</td>
</tr>
<tr>
<td>Homework</td>
<td>Most Days</td>
<td>15%</td>
</tr>
</tbody>
</table>

Grading Policy

To determine the average needed to ensure that you obtain the grade that you want in this course, consult the table that follows.

<table>
<thead>
<tr>
<th>Average</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.5 and above</td>
<td>A</td>
</tr>
<tr>
<td>79.5 to 89.5</td>
<td>B</td>
</tr>
<tr>
<td>69.5 to 79.5</td>
<td>C</td>
</tr>
<tr>
<td>59.5 to 69.5</td>
<td>D</td>
</tr>
<tr>
<td>below 59.5</td>
<td>F</td>
</tr>
</tbody>
</table>
Homework Policy

Homework sets will be assigned most days and will be due at the beginning of the next class day unless there is an exam on that day. In that case, the homework will be due the class day following the exam. The lowest 2 homework grades will be dropped at the end of the semester when determining the homework average. Up to 2 late homework assignments will be accepted during the semester. No other late assignments will be accepted for any reason. If you have trouble completing a homework assignment, please see me for assistance.

Exams

There will be four mid-semester exams scheduled as shown above, which will account for 60% of your final grade. Each mid-semester exam will account for 15% of your final grade. In addition to these exams, there will be a comprehensive Final Exam on Monday, May 4th from 10:30 a.m. – 12:30 p.m. The Final Exam will account for 25% of your final grade.

Attendance

Attendance will be taken regularly. Please inform me of any absences prior to the absence whenever possible.

Drop Date

Thursday, March 26th is the last day to drop a class and receive a “W.”

Student Responsibilities

The student is solely responsible for:

- Completing each assignment by the specified due date.
- Obtaining assignments and other materials for classes from which they are absent.
- Utilizing, as needed, all available study-aid options (including meeting with the instructor, referring to outside texts, etc.) to resolve any questions that they might have regarding homework, course material, etc.
- Realizing from the beginning of the course the grade that they may need or want to graduate, maintain a scholarship, stay in athletics, etc. … and give as much effort as it takes to obtain this grade.

Student Disability Services

ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation.

The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting:

Dallas Swafford
Director of Student Disability Services
Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Title IX at Angelo State University:

Angelo State University is committed to providing and strengthening an educational, working, and living environment where students, faculty, staff, and visitors are free from sex discrimination of any kind. The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance. This is done in order to connect students with resources and options in addressing the allegations reported. As a student, are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator. You may do so by contacting:

Michelle Boone, J.D.  
Director of Title IX Compliance/Title IX Coordinator  
Mayer Administration Building, Room 210  
325-942-2022  
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

The Office of Title IX Compliance also provides accommodations related to pregnancy (such as communicating with your professors regarding medically necessary absences, modifications required because of pregnancy, etc.). If you are pregnant and need assistance or accommodations, please contact the Office of Title IX Compliance utilizing the information above.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

Student Absence for Observance of Religious Holy Days

A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. The full details can be found in ASU Operating Policy OP 10.19 Observance of Religious Holy Days.

Incomplete Grade Policy

It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures for more information.
Student Conduct Policies

Academic Integrity

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU.

The College of Science and Engineering adheres to the Statement of Academic Integrity.

Plagiarism

Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list.

Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

Copyright Policy

Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

General Policies Related to this Course

- All students are required to follow the policies and procedures presented in these documents:
  - Angelo State University Student Handbook
  - Angelo State University Catalog

- In the event that the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.

- All electronic correspondence will be sent to your ASU e-mail account unless other arrangements are made.

- Feel free to come by my office at any time for help. I will definitely be near my office during my office hours (or there will be a note telling you when I will be back). If my office hours are not convenient for you, meet with me to arrange for another time that is more convenient.

- Good luck. I sincerely hope you do well in this course, and I strongly encourage you to use me as a resource outside of class to help you succeed.
Mathematics 2312 - Student Learning Outcomes

1. **The students will demonstrate an understanding of factual knowledge including the mathematical notation and terminology used in this course.** Students will read, interpret, and use the vocabulary, symbolism, and basic definitions used in precalculus pertaining to the real numbers; exponents and radicals; polynomials, factoring, and rational expressions; equations and inequalities; functions; polynomial and rational functions; inverse functions; exponential and logarithmic functions; graphs and their transformations; and vectors.

2. **The students will describe the fundamental principles including the mathematical rules and theorems arising from the concepts covered in this course.** Students will identify and apply the laws and formulas that result directly from the definitions; for example, rules of exponents, exponential and logarithmic properties, the quadratic formula, slope and formulas for the equations of lines, the Intermediate Value Theorem, and the limit laws.

3. **The students will apply course material using techniques and procedures covered in this course to solve problems.** Students will utilize the facts, formulas, and the techniques learned in this course to simplify algebraic expressions; graph functions; and solve equations and systems of equations.

4. **The students will develop specific skills, competencies, and thought processes sufficient to support further study or work in this field or related fields.** Students will acquire a level of proficiency in the fundamental concepts and applications in precalculus necessary for success in calculus.

**Course Content**

**Textbook:** *Precalculus: Mathematics for Calculus, 7th Edition*, by Stewart, Redlin, and Watson. The following chapters including the particular sections listed are covered.

1. **Fundamentals:** Exponents and Radicals; Algebraic Expressions; Rational Expressions; Equations; Inequalities; The Coordinate Plane; Graphs of Equations; Circles; Lines.

2. **Functions:** Functions; Graphs of Functions; Getting Information from the Graph of a Function; Average Rate of Change; Linear Functions; Transformation of Functions; Combining Functions; One-to-one Functions and Their Inverse.

3. **Polynomials and Rational Functions:** Quadratic Functions; Polynomial Functions; Dividing Polynomials; Rational Functions; Polynomial and Rational Inequalities.

4. **Exponential, and Logarithmic Functions:** Exponential Functions; The Natural Exponential Function; Logarithmic Functions; Laws of Logarithms; Exponential and Logarithmic Equations.

10. **Systems of Equations and Inequalities:** Systems of Linear Equations in Two Variables; Systems of Linear Equations in Several Variables; Partial Fractions; Systems of Nonlinear Equations; Systems of Inequalities.

13. **Limits:** A Preview of Calculus: Finding Limits Numerically and Graphically; Finding Limits Algebraically; Limits at Infinity.
**Anticipated Schedule**
The table below indicates the expected sections that will be discussed on the date listed.

<table>
<thead>
<tr>
<th>Week</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.2, 1.3</td>
</tr>
<tr>
<td>2</td>
<td>1.3, 1.4, 1.5</td>
</tr>
<tr>
<td>3</td>
<td>1.5, 1.8</td>
</tr>
<tr>
<td>4</td>
<td>1.9, <strong>Exam 1</strong></td>
</tr>
<tr>
<td>5</td>
<td>1.10, 2.1, 2.2, 2.3</td>
</tr>
<tr>
<td>6</td>
<td>2.4, 2.5, 2.6</td>
</tr>
<tr>
<td>7</td>
<td>2.7, 2.8, 3.1</td>
</tr>
<tr>
<td>8</td>
<td>3.2, <strong>Exam 2</strong></td>
</tr>
<tr>
<td>9</td>
<td>3.3, 3.6, 4.1, 4.2</td>
</tr>
<tr>
<td>10</td>
<td>4.3, 4.4, 4.5</td>
</tr>
<tr>
<td>11</td>
<td>13.1, <strong>Exam 3</strong></td>
</tr>
<tr>
<td>12</td>
<td>13.2, 13.4</td>
</tr>
<tr>
<td>13</td>
<td>10.1, 10.2, 10.8</td>
</tr>
<tr>
<td>14</td>
<td>10.9, <strong>Exam 4</strong></td>
</tr>
<tr>
<td>15</td>
<td>10.7, Core Assessment, Selected Review Exercises</td>
</tr>
<tr>
<td>16</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.

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1. Blackboard Link: [http://blackboard.angelo.edu](http://blackboard.angelo.edu)
2. Angelo State University Incident Form: [www.angelo.edu/incident-form](http://www.angelo.edu/incident-form)
3. Title IX at Angelo State University: [www.angelo.edu/title-ix](http://www.angelo.edu/title-ix)
5. Grading Procedures: [http://www.angelo.edu/content/files/14197-op-1011-grading-procedures](http://www.angelo.edu/content/files/14197-op-1011-grading-procedures)
7. ASU Writing Center: [http://www.angelo.edu/dept/writing_center/academic_honesty.php](http://www.angelo.edu/dept/writing_center/academic_honesty.php)