Math 127 PreCalculus II
Section 20383/20384

Contact Information

Jeff Downs
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Office: Piñon F-1 Fallon
Phone: 423-8330 x2251

Office Hours:
T Th: 11:00 AM – 1:00 PM
W: 1:00 PM – 1:30 PM
or by appointment

Prerequisites: MATH 126 or three units of high school mathematics at the level of algebra and above, or consent of instructor.

Course Description: Studies circular functions, trigonometric identities and equations, conic sections, complex numbers, and discrete algebra.

Course Objectives- Upon completion of this course, the student should be able to do the following:

- Use geometry to work with symmetrical triangles.
- Solve problems using the distance formula and the Pythagorean theorem.
- Compute trigonometric functions of special angles and use them to solve for the unknown part(s) of right triangles.
- Use the Laws of Sines and Cosines to solve for the unknown parts of triangles.
- Compute vector sums and differences.
- Solve trigonometric identities and equations.
- Graph trigonometric functions.
- Compute the values of inverse trigonometric functions.
- Graph equations and functions in polar coordinates.
- Use DeMoivre’s theorem to find the powers and roots of complex numbers.

Linkage to College Mission: Provide instruction that contributes to a student’s ability to think critically and solve problems; to reason mathematically and apply computational skills.


Supplies: Textbook is required, TI-89 Graphing Calculator is recommended but not required.

Grading Scale:

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<tr>
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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
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<tbody>
<tr>
<td>90 – 100%</td>
<td>80 – 89%</td>
<td>70 – 79%</td>
<td>60 – 69%</td>
<td>Below 60%</td>
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Grade Breakdown:

Mid Term Exam: 200 points
Quizzes: Top 10 @10 points each = 100 points
Participation: Min. of 10 postings @ 10 points = 100 points
Homework: 4 chapters @ 50 points each = 200 points
Final Exam: 200 points
Total 800 points

Exams: There will be a midterm and a Final Exam. You may do the exams in one of two formats- Paper or Online.

Paper Exams: Exams are posted in Moodle and will be downloaded and printed by the student. The exam must be received by my by the due date. Students may use US mail, Parcel Deliver (UPS, FedEx, etc.), campus mail, or hand delivery. Faxed copies will be accepted, but must be followed by the original of the
exam. Students may also scan and email their exam. Make a photocopy of the exam for your records in case there is a delivery problem.

If Exams or Homework are emailed, please send in Moodle and in pdf format if possible.

**Online Exams:** Exams are completed in Hawkes Learning System. The exams must be completed by the end of the availability.

Paper Exams will receive partial credit but can only be taken once. Online exams will receive no partial credit, but may be retaken during the exam time to improve scores. If you try the online exam and do not like the format you may switch to the paper exam.

**Quizzes:** Every week, after our review meeting, there will be a quiz in Moodle. Your top 10 scores will count toward the grade. If you miss a quiz deadline, you will receive a score of 0.

**Participation:** You must provide at least 10 postings in the discussion board. The postings must be substantive and not simply say, “I agree”. You can either ask a question from our material or you can answer a question. Your first posting should be an introduction about yourself.

**Homework:** You have two choices for homework in this class. You can either do the Hawkes Learning System section certifications or you can do the homework assigned with each lesson in class on paper. Homework counts for a total of 200 points. If you try the Hawkes and would prefer to go with traditional homework, you may do so. If you do the traditional paper homework, you must fax, mail, or scan and email your homework to me to be received by the due date of the exam. Please send the work as a bundle of the entire chapters. I strongly encourage students to mail a copy of their homework in case it is lost in the mail. I will not accept any late homework. The Hawkes software works on both PC and Mac machines. There are computers in Fallon, Douglas, and Carson City campuses running the software.

**Attendance:** Students are expected to participate and keep pace on a regular basis, at least once a week. Any departure from the attendance policy must be pre-approved by **February 1, 2013. There will be no scores of W issued by me in this class. If you feel the need to drop the class, you must do so by March 29. I will not issue a W.**

**Ethics Statement:** No cheating of any kind will be tolerated. Any student caught cheating, attempting to cheat, or assisting in the cheating of another student will be expelled from the class with a failing grade.

**Note:** Please be polite and deactivate audio devices prior to entering class. Pagers and Cellular phones are distracting. Please do not receive calls during class time.

**Grade Appeals** can be made to Brigitte Dillet at: bdillet@wnc.edu

**Disability Statement:** I encourage any student needing to request accommodations for a specific disability to please meet with me or the DSS coordinator (445-3275) at your earliest convenience to ensure timely and appropriate accommodations.

**Important Dates:**
- **January 22:** Classes begin.
- **January 26:** Last day to receive a 90% refund. Classes dropped from this date forward will receive a W.
- **February 2:** Last day to pay for classes with a late fee. Late registration ends.
- **February 19:** President’s Day- college closed
- **March 15:** Last day to change credit to audit or audit to credit.
- **March 18 - 22:** Spring Break, no classes
- **March 29:** Last day to drop full-term classes with a “W”
- **May 13:** Final Exams Begin
## Tentative Schedule

<table>
<thead>
<tr>
<th>Week of</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>Jan 21</td>
<td>Get Into Moodle Post Introduction</td>
<td>6.1</td>
<td>Meeting over 6.1</td>
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<tr>
<td>Jan 28</td>
<td>Quiz 1 due 6.2, 6.3</td>
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<td>Meeting over 6.2/6.3</td>
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<tr>
<td>Feb 4</td>
<td>Quiz 2 due 6.4, 6.5</td>
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<td>Meeting over 6.4/6.5</td>
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<tr>
<td>Feb 11</td>
<td>Quiz 3 due 7.1</td>
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<td>Meeting over 7.1</td>
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<tr>
<td>Feb 18</td>
<td>President’s Day No Class</td>
<td>Quiz 4 due 7.2, 7.3</td>
<td></td>
<td>Meeting over 7.2/7.3</td>
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<td>Feb 25</td>
<td>Quiz 5 due 7.4</td>
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<td>Meeting over 7.4</td>
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<td>Mar 4</td>
<td>Quiz 6 due Review Practice Midterm</td>
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<td>Meeting over Practice Midterm Midterm Released</td>
<td>Midterm</td>
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<td>Mar 11</td>
<td>Midterm</td>
<td>Midterm</td>
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<td>Mar 18</td>
<td>Spring Break: A great time to study math.</td>
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<td>Mar 25</td>
<td>8.1, 8.2</td>
<td></td>
<td>Meeting over 8.1/8.2</td>
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<td>April 1</td>
<td>8.3, 8.4 Quiz 7 due</td>
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<td>Meeting over 8.3/8.4</td>
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<td>April 8</td>
<td>8.5 Quiz 8 due</td>
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<td>Meeting over 8.5</td>
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<td>April 15</td>
<td>8.6 Quiz 9 due</td>
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<td>Meeting over 8.6</td>
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<td>April 22</td>
<td>9.1, 9.2 Quiz 10 due</td>
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<td>Meeting over 9.1/9.2</td>
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<td>April 29</td>
<td>9.3 Quiz 11 due</td>
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<td>Meeting over 9.3</td>
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<td>May 6</td>
<td>Review Practice Final</td>
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<td>Meeting over Practice Final Final Exam available</td>
<td>Final Exam available</td>
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<td>May 13</td>
<td>Final Exam available</td>
<td>Final Exam Due</td>
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<td>Remainder of Finals Week</td>
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