Instructor: Dr. Rui Xu  
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Office hours: MF 8:50 am–10:00 am, MF 1:50 pm–3:05 pm, W 8:30 am–10:00 am, W 1:50 pm–5:30 pm or by appointment.

Textbook: Precalculus (3rd Edition), by Robert Blitzer

Course Description: Topics in analytic trigonometry and analytic geometry. Credit for this course is not allowed if the student already has credit for 1113 or 1634.

Topics: Trigonometric Equations, Analytic Trigonometry, Applications of Trigonometric Functions, Polar Coordinates and Analytic Geometry.

Learning Outcomes: Students should be able to demonstrate:
1. An understanding of how to find the values of the trigonometric functions
2. An understanding of the graphs of the trigonometric functions
3. An understanding of how to prove trigonometric identities
4. An understanding of how to use sum, difference, double angle and half angle formulas
5. An understanding of how to solve triangles using the law of sines and law of cosines
6. An understanding of polar coordinates and graphs
7. An understanding of conic sections and their graphs

Grading Methods: Grades will be assessed based on a total of 690 points (as shown below), using the standard decade scale: (90–100%=A, 80–89%=B, 70–79%=C, 60–69%=D, below 60%=F).

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
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<tbody>
<tr>
<td>Test 1 (Covering Chapter 4.1–4.4)</td>
<td>100pts</td>
</tr>
<tr>
<td>Test 2 (Covering Chapter 4.5–4.8)</td>
<td>100pts</td>
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<td>Test 3 (Covering Chapter 5)</td>
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<tr>
<td>Test 4 (Covering Chapter 6)</td>
<td>100pts</td>
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<tr>
<td>Final (Comprehensive)</td>
<td>150pts</td>
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<tr>
<td>Homework</td>
<td>120pts</td>
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<tr>
<td>Attendance</td>
<td>20pts</td>
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<tr>
<td><strong>Total</strong></td>
<td>690pts</td>
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**Worksheet & Test policy:** The best 15 worksheets will be counted. No make-up for worksheet. We try to spend some time in class working on the worksheet if time allows. Finished worksheet should be turned in on time to get credits. Worksheet may be graded partially or totally. I may grade a specific problem or just look for completeness. Make-up test can only be given for the students who have a University Approved Excuse. In that case, students should contact the instructor in advance to reschedule the make-up test.

**Other Policies:**

1. Class attendance will be taken every class day. You are not allowed to come to class late or to leave early. If you miss class for any reason, it is your responsibility to get the lecture notes from a classmate, read the text, and do the worksheet. You are allowed to miss at most 2 classes to get the full 20pts for attendance.

2. Pagers or cell phones should be set to an inaudible setting.

3. If you are a person with any kind of disability and anticipate needing any type of accommodation to participate in this class, please let me know and make appropriate arrangements with Disability Services.

**Important Dates:**

- June 9–10: Drop/Add and late registration
- July 2: Last day to withdraw with a grade of W
- July 4: Independence Day Holiday (no class)
- July 28: Last day of class
- July 30: Reading Day
- July 31: Final Exam 10:00 am–12:00 pm

Please note that the homework problems assigned below have been chosen to give you an idea of the range of problems you are expected to be able to work. You are not required to turn in your homework, but you are suggested to do all of the assigned problems and try to do more problems for practice.

- **Section 4.1:** 11, 15, 17, 19, 23, 25, 29, 31, 33, 37, 41, 45, 49, 65, 67, 69
- **Section 4.2:** 3, 5, 9, 13, 17, 19, 21, 23, 25, 29, 33, 35, 37, 39, 41, 44
- **Section 4.3:** 2, 5, 9, 11, 13, 15, 21, 23, 25, 27, 29, 33, 43
- **Section 4.4:** 3, 7, 9, 11, 13, 15, 17, 19, 21, 23, 29, 32, 37, 41, 45, 51, 57, 61
- **Section 4.5:** 3, 7, 11, 19, 33, 35, 43, 55, 59, 61, 71
- **Section 4.6:** 1, 3, 5, 13, 15, 19, 25, 29, 33
- **Section 4.7:** 1, 3, 5, 7, 9, 11, 13, 15, 17, 31, 33, 35, 41, 47, 51, 57, 61, 65
- **Section 4.8:** 1, 5, 13, 15, 17, 19, 21, 33, 39
- **Section 5.1:** 1, 3, 7, 9, 15, 19, 21, 23, 27, 35, 43, 47, 53, 59
- **Section 5.2:** 1, 3, 5, 7, 9, 13, 15, 17, 25, 27, 29, 33, 39, 41, 45, 51, 53
Section 5.3: 1,3,5,9,15,17,19,21,25,27,31,35,37,39,41,43,47,55,59,61,63
Section 5.4: 1,5,9,11,13,14,23,25,27
Section 5.5: 1,3,7,11,13,23,25,29,39,41,47,53,55,57,63,69,71
Section 6.1: 1,3,9,15,17,23,25,33,39
Section 6.2: 1,5,9,19,25,31,35
Section 6.3: 1,3,5,9,11,17,19,21,27,29,31,35,37,41,45,49,55,59,63,69
Section 6.4: 1,2,3,4,5,6,7,9,11,13,15,17
Section 6.5: 1,5,11,15,17,27,29,31,37,39,45,49,53,59,61,63,65,67,71
Section 6.6: 1,3,5,9,13,17,21,23,31,37,41,45,47
Section 6.7: 1,3,9,11,17,23,29,33,43