Description: Precalculus is a preparation for calculus which includes a thorough review of algebra. Emphasis will be on functions and their applications; in particular, polynomials, rational functions, exponentials, logarithms, and trigonometric functions.

Text: *Precalculus*, Ninth Edition, by Larson. The textbook will not be used, but you will need to be able to access WebAssign through the WebAssign link on HuskyCT.

Exams: The final exam is scheduled for Friday, January 15th.

Homework: There will be homework assigned and collected on WebAssign (due at 11:59PM three days after being covered in class). Homework will be on WebAssign which you can reach from the course HuskyCT page. You are responsible for completing the assignments on time. No late homework will be accepted, and the lowest homework score will be dropped.

Worksheets: A worksheet will be assigned for each day of class. Each worksheet will be returned on the day it was assigned. No late worksheets will be accepted, and the lowest worksheet score will be dropped.

Grading: Based on the homework, the daily worksheets, and the exams. The weights will be approximately:
- Worksheets: 30%
- Homework: 30%
- Final Exam: 40%
<table>
<thead>
<tr>
<th>Lecture</th>
<th>Day</th>
<th>Textbook Section</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12/28/2020</td>
<td>A.1, A.2, A.7</td>
<td>Numbers and Algebra, Exponents and Radicals, Common Mistakes</td>
</tr>
<tr>
<td>2</td>
<td>12/29/2020</td>
<td>A.3, A.4, A.7</td>
<td>Polynomials and Factoring, Rational Expressions, Common Mistakes</td>
</tr>
<tr>
<td>3</td>
<td>12/30/2020</td>
<td>A.5, 1.1, 1.2, 1.3</td>
<td>Solving Equations, Rectangular Coordinates, Graphs of Equations and Linear Functions</td>
</tr>
<tr>
<td>4</td>
<td>12/31/2020</td>
<td>1.4, 1.5, 1.6</td>
<td>Functions, Analyzing Graphs of Functions, Parent Functions</td>
</tr>
<tr>
<td>5</td>
<td>1/4/2021</td>
<td>1.7, 1.8, 1.9</td>
<td>Transformations of Functions, Combinations of Functions, Inverse Functions</td>
</tr>
<tr>
<td>6</td>
<td>1/5/2021</td>
<td>2.1, 2.2</td>
<td>Quadratic Functions, Polynomial Functions</td>
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<tr>
<td>7</td>
<td>1/6/2021</td>
<td>2.6</td>
<td>Rational Functions</td>
</tr>
<tr>
<td>8</td>
<td>1/7/2021</td>
<td>3.1, 3.2, 3.3</td>
<td>Exponential Functions, Logarithmic Functions, Properties of Exponentials and Logarithms</td>
</tr>
<tr>
<td>9</td>
<td>1/8/2021</td>
<td>3.4</td>
<td>Exponential and Logarithmic Equations</td>
</tr>
<tr>
<td>10</td>
<td>1/11/2021</td>
<td>4.1, 4.2, 4.3</td>
<td>Radian and Degree Measure, The Unit Circle, Right Triangle Trigonometry</td>
</tr>
<tr>
<td>11</td>
<td>1/12/2021</td>
<td>4.4, 4.5, 4.6</td>
<td>Trigonometric Functions, Graphs of Sine and Cosine Functions, Graphs of Other Trigonometric Functions</td>
</tr>
<tr>
<td>14</td>
<td>1/13/2021</td>
<td>4.7</td>
<td>Inverse Trigonometric Functions</td>
</tr>
<tr>
<td>15</td>
<td>1/14/2021</td>
<td>5.1, 5.2, 5.3</td>
<td>Using Trigonometric Identities, Verifying Trigonometric Identities, Solving Trigonometric Equations</td>
</tr>
<tr>
<td>16</td>
<td>1/15/2021</td>
<td>Final</td>
<td>Final</td>
</tr>
</tbody>
</table>

1. **A.1** Numbers and Algebra
2. **A.2** Exponents and Radicals
3. **A.3** Polynomials and Factoring
4. **A.4** Rational Expressions
5. **A.5** Solving Equations
6. **A.6** Functions
7. **A.7** Common Mistakes
8. **A.8** Analyzing Graphs of Functions
9. **A.9** Parent Functions
10. **A.10** Transformations of Functions
11. **A.11** Combinations of Functions
12. **A.12** Inverse Functions
13. **A.13** Quadratic Functions
14. **A.14** Polynomial Functions
15. **A.15** Rational Functions
16. **A.16** Exponential Functions
17. **A.17** Logarithmic Functions
18. **A.18** Properties of Exponentials and Logarithms
19. **A.19** Exponential and Logarithmic Equations
20. **A.20** Radian and Degree Measure
21. **A.21** The Unit Circle
22. **A.22** Right Triangle Trigonometry
23. **A.23** Trigonometric Functions
24. **A.24** Graphs of Sine and Cosine Functions
25. **A.25** Graphs of Other Trigonometric Functions
26. **A.26** Inverse Trigonometric Functions
27. **A.27** Using Trigonometric Identities
28. **A.28** Verifying Trigonometric Identities
29. **A.29** Solving Trigonometric Equations
30. **A.30** Final