MATH 176 PRE-CALCULUS SYLLABUS
SPRING SEMESTER 2018

INSTRUCTOR: Bryan Elliott  www.cuyamaca.edu/people/bryan-elliott/default.aspx

SECTIONS: Section 9375  MW room H134 8am-10:50am

CONTACT INFORMATION: You may contact me in my office H112 at 660 4551. You may contact via email at bryan.elliott@gcccd.edu

OFFICE HOURS: MW  715am – 8 am  MW  11am – 1130am
TTh 12pm-1230pm  Online office hours M - Th
These are subject to change.

My office is in H112, I am also available by appointment. Please be sure to call or email me if you are going to miss class to get the homework assignment so you can be prepared for the next class.

INTRODUCTION: Welcome to Pre-Calculus! Please read this syllabus carefully. I feel that it will answer most of the questions you may have about how Math 176 fits in with your goals as a student at Cuyamaca College. This course is intended to prepare students for a comprehensive course in calculus and is required for a major in mathematics, physics, chemistry, engineering, and computer science, as well as many of the life sciences. Math 176 satisfies the graduation requirement in mathematics at Cuyamaca College.

TEXT: Precalculus Mathematics for Calculus; 7th Edition; Stewart et al.

PREREQUISITES: Mathematics 110 with a grade of “C” or better. (Math 103 does not meet the prerequisite.) or satisfactory score on the math placement test.

MATERIALS: Use of graphing technology is required in this course. Cuyamaca College recommends the TI84plus, TI Nspire.

WebAssign access code. This may be purchased with your textbook or separately.

Any information given here may change at the discretion of the instructor at any time.
This course adheres to the policies outlined in the Cuyamaca College catalogue.
For further information, see Academic Policies stated in the catalogue.
Important Dates

<table>
<thead>
<tr>
<th>1st day of Instruction</th>
<th>Late Add Deadline</th>
<th>Deadline to drop class with no record &amp; receive refund</th>
<th>Deadline to file for Pass/No Pass grading option</th>
<th>Deadline to drop with a “W” grade (withdraw)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/29</td>
<td>2/9</td>
<td>2/9</td>
<td>3/2</td>
<td>4/27</td>
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WEBASSIGN: The following information will also be posted on our course blackboard page. You will need the following information to register into the WebAssign portion of this class (where we will be doing HW and quizzes).

Course Name: Math 176, section 9375
Start Date: January, 2018
Instructor Name: Bryan Elliott
Class Key: cuyamaca 4389 2165

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1) Graph functions and relations in rectangular coordinates and polar coordinates;
2) Apply transformations to the graphs of functions and relations;
3) Recognize the relationship between functions and their inverses graphically and algebraically;
4) Solve equations including rational, linear, polynomial, exponential, absolute value, radical, and logarithmic, and solve linear, nonlinear, and absolute value inequalities;
5) Solve systems of equations and inequalities;
6) Apply functions to model real world applications;
7) Identify special triangles and their related angle and side measures;
8) Evaluate the trigonometric function at an angle whose measure is given in degrees and radians;
9) Manipulate and simplify a trigonometric expression;
10) Solve trigonometric equations, triangles, and applications;
11) Graph the basic trigonometric functions and apply changes in period, phase and amplitude to generate new graphs;
12) Evaluate and graph inverse trigonometric functions;
13) Prove trigonometric identities;
EXAMINATIONS:

- CHAPTER TESTS: There will be at least 5 exams, your lowest score from this group will be **REPLACED** by your next lowest exam score.
- FINAL EXAM: The final exam will be comprehensive. This exam **may not** be dropped.

MAKEUP TESTS: You will be informed of test dates with a minimum of one weeks advance notice. Since one test score will be dropped and replaced there will be NO MAKEUP or RESCHEDULED TESTS. Please don’t ask.

HOMEWORK: Homework will be assigned and performed through the publishers WebAssign site. You will also receive occasional “spot” assignments in class. You are expected to do all assignments. Failure to complete the assignments, will almost **definitely assure a failing grade** in the course. Mathematics is a subject that is **learned by doing**, not by watching. Any difficulties with homework assignments may be discussed with your instructor. Webassign homework should always be considered due one week after covering the section in class. For example, if we cover section 2.2 and 2.3 on Wednesday, March 3 then the HW for those two sections would be due on Wednesday, March 10. This give you the opportunity to work on the assignment independently on March 3, 4, 5th… and then seek assistance from your instructor and/or a tutor or colleague before the due date. Homework is best worked on in small groups.

LAB PROJECTS: The lab projects will be available at the appropriate time of the course. There will be 1 or more lab projects each designed to allow the student to examine "real world" applications using technology as a tool. Incomplete lab assignments will not be accepted.

GRADING: Your grade will be computed as follows:

Exams will each be worth 100 points; quizzes will vary in points, individual & group projects may be assigned, each will be worth 10 points. Homework will be worth than 6 points a chapter.

The following grading scale is used:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Letter</th>
<th>Description</th>
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<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
<td>Excellent Achievement of Course Objectives</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
<td>High Achievement of Course Objectives</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
<td>Satisfactory Achievement of Course Objectives</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
<td>Minimal Achievement of Course Objectives</td>
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<tr>
<td>below 60%</td>
<td>F</td>
<td>Failure</td>
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Grades will be tabulated on the college’s blackboard site [https://gcccd.blackboard.com](https://gcccd.blackboard.com)
OTHER ITEMS:

- ATTENDANCE: Class attendance is strongly advised. I have the authority to do an instructor initiated drop, should you miss the equivalent of 2 weeks of classes. Students find that learning is enhanced through in class interaction with their peers and their instructor. For most students regular attendance will be essential to achieve satisfactory results.

- TARDINESS: Chronic tardiness will not be tolerated. Arriving late and/or leaving early will cause you to be dropped after 10 incidents.

- PERMANENT FOLDER: Please retain all quizzes, exams, labs, and homework etc. in a folder until you have received your grade for the course.

- WITHDRAWAL POLICY: Students may withdraw from the course through November 10. No withdrawals will be approved after that date without documented evidence - such as a medical emergency or relocation - or being physically unable to complete the course.

- CHEATING POLICY: Students found cheating on tests will receive an "F" for the assignment, suspended from class for a minimum of 3 classes, and be subject to the College’s disciplinary procedures.

- CELL PHONES: These will be turned off or completely silent (vibrate mode is not silent) while inside our classroom.

ACCOMMODATIONS: A student with a verified disability may be entitled to appropriate academic accommodations. Please contact the instructor and/or the Disabled Students Program and Services Office for further information.

- EXTRA HELP: To support your efforts to succeed in this class, it is highly recommended that you utilize the free math tutoring services available in the STEM tutoring center. The hours last semester were 9am-7pm M-Th. Please check with the STEM center for the current semesters hours.

CONCLUSION: Pre-Calculus is a challenging course but the methods for success are simple: study every day to make sure you don’t fall behind in the class; get help as needed from your instructor and /or the learning center; get to know other students in class - many students find it helpful to study in groups; and most of all, cultivate the attitude "I can do this!". Success in Pre-Calculus helps build a solid foundation in mathematics which in turn will provide you with career opportunities in many fields including science, business, and medicine.
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<tr>
<th>Date Range</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Jan 29 – Feb 2</td>
<td>Introduction to the course</td>
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<td>Chapter 2</td>
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<tr>
<td>Feb 5 – Feb 9</td>
<td>Chapter 2</td>
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<tr>
<td>Feb 12 – Feb 16</td>
<td>Test 1(Ch2); Chap 3</td>
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<td>Feb 19 – Feb 23</td>
<td>Chap 3, Chap 4</td>
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<td></td>
<td>Holiday Feb 19</td>
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<tr>
<td>Feb 26 – Mar 2</td>
<td>Chap 4</td>
</tr>
<tr>
<td>Mar 5 – Mar 9</td>
<td>Test 2(Ch3&amp;4); Chap 10</td>
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<tr>
<td>Mar 12 – Mar 16</td>
<td>Chap 10; Chap 11</td>
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<tr>
<td>Mar 19 – Mar 23</td>
<td>Chap 11; Test 3(C10&amp;11)</td>
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<tr>
<td>Mar 26 – March 30</td>
<td>Spring Break</td>
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<tr>
<td>Apr 2 – Apr 6</td>
<td>Chap 5.1 &amp; 5.2, Chap 6.1</td>
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<td>Apr 9 – Apr 13</td>
<td>Ch 6.2, 6.3 Test 4(Ch 5.1, 5.2, 6.1, 6.2, 6.3)</td>
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<td>Apr 16 – Apr 20</td>
<td>Chap 5.3, 5.4, 5.5</td>
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Apr 23 – Apr 27  Chap 6.4, 6.5, 6.6

April 30 – May 4  Test 5(Ch 5 & 6); Ch 7.1
May 7 – May 11  Chapter 7

May 14 – May 18  Test : Chapter 7
May 21 – May 25  Review for Final Exam

Wednesday, May 30  8am – 10am FINAL EXAM room H134