


*****PORTLAND COMMUNITY COLLEGE*****

Mail: P.O. Box 19000, Portland, OR 97280 SYL campus: 12000 SW 49th Ave., Portland, OR 97219

COURSE	MTH 111: Precalculus I
TERM	Fall 2022
SECTION	CRN 40853
TIME/DAYS	Tuesday/Thursday 11:00 – 1:20
ROOM	TCB 218
INSTRUCTOR OFFICE Math Dept Phone EMAIL	Rus Jordan SS 201 (971) 722-4149 rus.jordan@pcc.edu
OFFICE HOURS	7:45 - 8:20 (TCB 218), after class, or by appointment
COURSE DESCRIPTION & PREREQUISITES	Explores relations and functions graphically, numerically, symbolically, and verbally. Examines exponential, logarithmic, polynomial, and rational functions. Investigates applications from a variety of perspectives. Prerequisites: MTH 95, RD 115, and WR 115
TEXTBOOK	<i>Algebra and Trigonometry 2e Free Online Version</i> located at https://openstax.org/details/books/algebra-and-trigonometry-2e Hard copy available at the PCC bookstore for \$51.20 (1 volume only) Amazon: Volume 1 (Ch 1-7) Volume 2 (Ch 8-13) \$32.99 each Supplement: https://spot.pcc.edu/math/supplement111-112/html/mth111.html
HOMEWORK	Homework will be due Tuesdays from the previous week's assignments. Since most assigned problems will be odd numbered problems with answers in the answer section of the book, <u>work must be shown</u> . Homework will be worth 75-100 points of your final grade. <u>Label each assignment with chapter and section number and staple together</u> . Late homework will be worth ½ credit. Once again <u>please show all work</u>
TESTS	<i>Tests:</i> Two tests (100 points each), one quiz (75 points). <u>Tests and quiz must be taken on the assigned dates.</u>
QUIZZES	Short quizzes will be given in class over material that has been presented that class period where you can use notes from the lecture (10 points each). The quizzes will be at the end of the period and can only be taken at that time. Since the quizzes will be an important part of attendance, <u>missed quizzes cannot be made up.</u>

FINAL EXAM	Chapter 6 and Comprehensive Final
GRADES	Based on the percentage of all points earned from tests, quizzes, and homework. 90-100% A, 80-89% B, 70-79% C, 60-69% D, Below 60% F.
GRADING EXPLANATION	<p>For the quarter there are 600 total points. The breakdown is as follows: Two Tests: 100 points each for a total of 200 possible One Quiz: 75 points End of Class Quiz Grade: 100 points possible Homework: 100 points possible Final Exam: 125 points possible</p> <p>In regards to the quiz grade, I will give a quiz at the end of each period worth 10 points. There are usually about 16 or 17 and I give them only on non-test days. I discard a student's 2 lowest scores and then divide by the total number of possible points to get a percentage. I convert this percentage into points for the grade. I will use 18 quizzes for example purposes. Since I discard a student's 2 lowest scores there are 160 possible points. Let's say that a student's 16 highest scores add up to 139 points. I divide 139/160 and the result is .869 or 86.9% which I round up to 87 points which is the student's quiz grade. The quizzes I give are not designed to mislead or confuse students and are very similar to examples that I have done that class period. Missed quizzes cannot be made up. It is also usually the case that a student's quiz grade will raise their overall grade for the quarter.</p> <p>The reason for the point range on the homework grade is that sometimes there are circumstances that change the total number of assignments and point total. I will sometimes make deletions (or additions) that reflect fewer assignments and lower point total. In addition to the above breakdown I give 5 bonus points for the completion of each concept review problem set that I send out before each test.</p>
COURSE OUTCOMES	<p>Upon successful completion students should be able to:</p> <ul style="list-style-type: none"> Analyze real world scenarios to recognize when exponential, logarithmic, rational, or polynomial functions are appropriate, formulate problems about the scenarios, creatively model these scenarios (using technology if appropriate) in order to solve the problems using multiple approaches, judge if the results are reasonable, and then interpret and clearly communicate the results Appreciate college algebra concepts that are encountered in the real world, understand and be able to communicate the underlying mathematics involved to help another person gain insight into the situation. Work with exponential, logarithmic, rational, and polynomial functions in various situations and use correct mathematical terminology, notation, and symbolic processes in order to be prepared for future coursework in the mathematical, physical, and social sciences that requires the use of and an understanding of the concepts of college algebra.
SMART PHONES, LAPTOPS, iPADS, PENCILS, and Erasable Ink Pens	<ul style="list-style-type: none"> Please turn off smart phones at the start of class. During exams, only calculators may be used. <u>Please make sure to bring them on exam days.</u> Other devices may not be used, such as smart phones, laptops, iPads, etc. Exception to using smart phones: under certain restrictions the Desmos app will be used on tests. Please use pencil or erasable pen on all tests, quizzes, and assignments. <u>Tests done in non-erasable pen will not be accepted!!</u>

<p>CALCULATORS</p> 	<p>Graphing calculators are <u>not required</u>. I will demonstrate using Desmos which is available at no cost on-line to students. Many of you have TI graphing calculators. These and any scientific calculator may be used on tests and quizzes. Questions requiring a graphing calculator will not be asked on proctored exams and quizzes.</p>
<p>COURSE EVALUATIONS</p>	<p>Near the end of the term, students are encouraged to complete evaluations by answering on-line questions about the class and the instructor. You will receive a PCC email notification when the evaluations become available. You are strongly encouraged to complete the evaluations to provide me feedback on the course and my teaching.</p>
<p>IMPORTANT DATES</p>	<p>Oct 4 Last day to drop W/O penalty Dec 3 Last day to withdraw Dec 3 Last day to change grade option from letter grade to P/NP or P/NP to a letter grade.</p>

"TENTATIVE" SCHEDULE	<u>TUESDAY</u>	<u>Section</u>	<u>THURSDAY</u>	<u>Section</u>
	Sep 27	Syllabus, 3.1	Sep 29	3.1, 3.2
Oct 4	3.2, 3.3	Oct 6	3.3, 3.5	
Oct 11	3.5, Review for Test #1 (3.1-3.3, 3.5)	Oct 13	<u>Test #1</u> (3.1-3.3, 3.5)	
Oct 18	3.5, 5.2	Oct 20	5.2, 5.3	
Oct 25	5.3, 5.6	Oct 24	5.6, Review for Quiz (3.5, 5.2, 5.3, 5.6)	
Nov 1	<u>Quiz (3.5, 5.2, 5.3, 5.6)</u> Start 3.4	Nov 3	3.4, 3.7	
Nov 8	6.1, 6.2	Nov 10	6.2, 6.3	
Nov 15	6.3, 6.4	Nov 17	6.4, Review for Test #2 (3.4, 3.7, 6.1-6.3)	
Nov 22	<u>Test #2</u> (3.4, 3.7, 6.1-6.3)	Nov 24	Thanksgiving Holiday	
Nov 29	6.4, 6.5	Dec 1	6.6	
Dec 6	6.7	Dec 5	Finish up/Review	
Dec 13	FINAL			

Have a Great Quarter!!



<p>“TENTATIVE” ASSIGNMENTS for Sections 3.1, 3.2, 3.3, 3.5</p> <p>(Subject to additions and deletions)</p>	<table border="1"> <thead> <tr> <th data-bbox="415 65 586 149"><u>Section</u></th> <th data-bbox="586 65 1560 149"><u>Problems</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="415 149 586 306">3.1</td> <td data-bbox="586 149 1560 306">9-13 odd, 14, 18, 24, 28, 32, 33, 35, 37, 41, 43, 44, 53, 54, 61, 62, 63, 65, 72, 91</td> </tr> <tr> <td data-bbox="415 306 586 443">3.2</td> <td data-bbox="586 306 1560 443">7-19 odd, 23, 27-33 odd, 37, 39, 41, 43, 47, 51, 53 Supplement 3.2: 5, 6, 7</td> </tr> <tr> <td data-bbox="415 443 586 516">3.3</td> <td data-bbox="586 443 1560 516">18, 19, 22, 23, 35, 39</td> </tr> <tr> <td data-bbox="415 516 586 659">3.5</td> <td data-bbox="586 516 1560 659">1, 6, 7, 11-17 odd, 47, 49, 52, 53-61 odd, 79, 81 Supplement 3.5: 1-10 all</td> </tr> </tbody> </table>	<u>Section</u>	<u>Problems</u>	3.1	9-13 odd, 14, 18, 24, 28, 32, 33, 35, 37, 41, 43, 44, 53, 54, 61, 62, 63, 65, 72, 91	3.2	7-19 odd, 23, 27-33 odd, 37, 39, 41, 43, 47, 51, 53 Supplement 3.2: 5, 6, 7	3.3	18, 19, 22, 23, 35, 39	3.5	1, 6, 7, 11-17 odd, 47, 49, 52, 53-61 odd, 79, 81 Supplement 3.5: 1-10 all
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