

Syllabus
Math 172 – College Algebra
Fall 2017

Course Number 32505 Section T5
TR 2:00 – 3:15, Room E202

Instructor: Henry Kopij
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Office Hours: TR 12:45-1:45 D205

TEXTBOOK: PRECALCULUS Graphs and Models by Coburn & Herdlick

Course Description: This course is a rigorous algebra course that strengthens the proficiency with algebraic skills and the conceptual understanding needed to be successful in the Calculus sequence. The topics include: sets, polynomial, exponential, logarithmic and rational functions, rational exponents, right triangle trigonometry, exponential, logarithmic and rational equations, linear and quadratic inequalities, absolute value equations and inequalities, linear and non linear systems.

Required Materials:

- Textbook Title: PRECALCULUS Graphs and Models
- Notebook or binder
- TI 83 or 84 graphing calculator

ATTENDANCE/CLASS PARTICIPATION : Attendance will be taken during every class. You are expected to attend each class and to be in class on time. You are also responsible for any material covered in class, including homework assignments and scheduling of exams. Students will be allowed two excused or unexcused absences. Any absence over the two allowed will have an impact on the attendance grade. Late arrivals and early departures will also impact the attendance grade.

GRADING:

- 1) Quizzes (Best 5 of 8 scores) - 100 points
- 2) 4 Tests - 500 points
- 3) Final Exam - 200 points
- 4) Homework – 100 points
- 5) Attendance 50 points
- 6) Take Home Assignments/Project(s) – 50 points

Final Grade = Points Earned/1000

	B+ = 87-89	C+ = 77 - 79	D+ = 67 -69
A = 93-100	B = 83-86	C = 73 - 76	D = 63-66
A- = 90-92	B = 80-82	C- = 70 - 72	D- = 60-62

Homework: Homework will be assigned during each class and will be gone over on the following class. You should spend 2-3 hours per assignment by reviewing examples shown in your textbook and by working out problems that are assigned for the next class meeting. Answers to all homework problems can be found in the back of the textbook. All assignments are listed in the syllabus. All work must be kept in a notebook with assignments clearly listed (showing all work) where they will be viewed by the instructor. All assignments must be completed prior to the test date for each scheduled exam.

Exams: Will be administered in class. **No make-up exams will be allowed unless there is an unavoidable situation that can be documented.** A student must contact the instructor on the day of the exam or earlier in order to be allowed to take a make-up exam. If a student misses an exam the final exam grade will be used as a replacement for missed exam. Any subsequent missed tests will result in a zero. Students that take all the exams may use their final exam to replace their lowest exam grade.

Academic Integrity is essential to a useful education. Failure to act with academic integrity severely limits a person's ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the college. In this class

Extra Credit – No “extra credit” is given in this course. **Extra credit is factored in when considering my attendance policy and the ability to drop the lowest quiz and exam grades.**

CLASS PARTICIPATION: I strongly encourage everyone to participate in class and to ask any questions that you may have. If you miss a class be sure to get the notes and assignments that you may have missed from a classmate.

Support Services: Free tutoring is available in room C-117 at the Thames Tutoring Center (860-885-2311). Appointments are required in advance.

Disabilities Statement:

If you have a disability that may affect your progress in this course, please meet with a Disability Service Provider (DSP) as soon as possible. Please note that accommodations cannot be provided until you provide written authorization from a DSP.

<p>_TRCC Disabilities Service Providers Counseling & Advising Office Room A-119</p>	
<p>Matt Liscum (860) 383-5240</p>	<ul style="list-style-type: none"><input type="checkbox"/> Physical Disabilities<input type="checkbox"/> Sensory Disabilities<input type="checkbox"/> Medical Disabilities<input type="checkbox"/> Mental Health Disabilities
<p>Chris Scarborough (860) 892-5751</p>	<ul style="list-style-type: none"><input type="checkbox"/> Learning Disabilities<input type="checkbox"/> ADD/ADHD<input type="checkbox"/> Autism Spectrum

Cell Phones should be turned off and put away during class. They should not be visible or in view on the student’s desktop. Cell phones are not allowed to be used as calculators during class or on exams. The use cell phones during class is distracting and rude behavior. Anyone violating this policy will be marked absent for the class.

Class Cancellation:

myCommNet Alert is a system that sends text messages and emails to anyone signed up in the event of a campus emergency. Additionally, TRCC sends messages when the college is delayed or closed due to weather.

All students are encouraged to sign up for myCommNet Alert. A tutorial is available on the Educational Technology and Distance Learning Students page of the web site.
http://www.trcc.commnet.edu/div_it/educationaltechnology/Tutorials/myCommNetAl

After the successful completion of the course the student must be able to:

1. Define absolute value, find distances on the number line, on the coordinate plane.
2. Simplify expressions with rational exponents, write them in radical form, simplify, combine, rationalize radical expressions.
3. Solve linear and quadratic inequalities, absolute value equations and inequalities, express answers in interval form.
4. Perform operations on complex numbers, conjugates, represent complex numbers graphically.
5. Perform operations on radical expressions, rational exponents, solve radical equations.
6. Find the domain and range of functions, combine functions, identify odd and even functions, graph piece-wise defined functions, find compositions of functions, inverses, and transformations of functions.
7. Find the characteristics of polynomial functions, solve polynomial equations, find zeroes (roots) and x-intercepts of polynomials, apply the Fundamental theorem of Algebra, The Remainder and Factor Theorems, analyze end behavior.
8. Graph rational functions, find vertical, horizontal, slant asymptotes.
9. Graph exponential and logarithmic functions, use properties of exponentials and logarithms, solve exponential and logarithmic equations.
10. Solve systems of linear equations in several variables.

Digication:

All students are required to maintain an online learning portfolio in Digication that uses the college template. Through this electronic tool students will have the opportunity to monitor their own growth in college-wide learning. The student will keep his/her learning portfolio and may continue to use the Digication account after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. Student work reviewed for assessment purposes will not include names and all student work will remain private and anonymous for college improvement purposes. Students will have the ability to integrate learning from the classroom, college, and life in general, which will provide additional learning opportunities. If desired, students

will have the option to create multiple portfolios

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Text: PRECALCULUS Graphs and Models - Coburn & Herdlick

Date	Chapter	Section	Assignment
8/29	1	1.1	15/9-41 eoo, 49, 53, 57, 67,70
8/31		1.2	29/7-37 eoo, 49, 51
9/5		1.3	43/7-91 eoo
		1.4	59/7-75 eoo, 83, 85
9/7		1.5	75/7,13,19....49
		1.6	90/15, 27
9/12	2	2.1	114/7-47 eoo
		2.2	130/9, 15, 21, 27, 33, 37, 45, 49, 81, 85, 93
9/14		2.3	144/9-53 eoo
		2.4	159/7-35 eoo
9/19		2.5	172/9-29 eoo
		2.6	183/21, 27, 29, 35, 37, 41
9/21			Review
9/26			Exam 1
9/28	3	3.1	211/21-49 eoo, 61, 65
		3.2	231/15, 25, 35.....135
10/3		3.3	244/7-31 eoo, 47
10/5		3.4	257/13, 17, 21, 27
		3.5	287/19-33 eoo, 51
10/10			Review
10/12			Exam 2
10/17	4	4.1	317/13-65 eoo
10/19			
10/24			
10/26		4.2	332/33-73 eoo, 83
10/31		4.3	349/57-73 eoo, 31, 35
11/2		4.4	366/9, 13, 17, 21, 37, 41, 45, 49, 61

11/7		4.5	380/7-35 eoo
		4.6	392/7, 13, 19....43
11/9			Review
11/14			Exam 3
11/16	5	5.1	418/9-65 eoo
		5.2	430/7, 13, 19.....55
11/21		5.3	442/7-55 eoo
11/28		5.4	454/7-63 eoo
11/30	5.5		466/7-43 eoo
		5.6	478/7-35 eoo
12/5	9	9.1	849/33, 35, 39, 43, 49, 53
		9.2	862/13, 15, 17
12/7			Review
12/12			Exam 4
12/14			Final Exam