

**GROSSMONT COLLEGE**  
**Math 175: College Algebra**  
**Fall 2014 Syllabus**

**Class Meets:** TTh: 3:30-5:20 PM, Bldg 53, Room 553 (Section #3484, 4 units)

**Instructor:** Michael T. Orr

**Contact Info:** Office Hours: (Tentative)

MW 11:30 AM – 12:20 PM in MSC  
2:20 – 3:00 PM

TTh 2:00 – 3:15 PM in MSC

Others by appointment.

E-mail Address: Michael.Orr@gcccd.edu

Phone/Voice Mail: (619) 322-5993

Web Address: www.grossmont.edu/michael.orr

**Prerequisite:** A "C" grade or higher in Math 110 or equivalent is required. (Note: Math 103 is not equivalent to Math 110.) You are responsible for knowing all Intermediate Algebra topics.

**Text:** *Precalculus: Mathematics for Calculus*, 6th Edition by James Stewart, Redlin, Watson.

**A Web Assign access code is required.**

Textbook + Enhanced Web Assign + eBook: ISBN-13: 9781133150657 (\$180.95)

Same as above, but paperback (online) ISBN-13: 9781133594765 (\$95 and up)

Enhanced Web Assign + eBook: Online ONLY (\$75.00)

These can be purchased by going to [www.webassign.net](http://www.webassign.net) and registering in the course.

WebAssign Course Code: **gcccd 2066 9971**

**Required:** **A graphing calculator.** We will be using the graphing calculator every day in class!

The math department recommends the **TI-83plus** or **TI-84**. Be aware that there may be portions of exams/quizzes where calculators CAN'T be used.

**The TI-89, TI-92, TI-Voyage200 (or equivalent), TI-Nspire CAS can NOT be used during exams or quizzes. \*\*NOTE: Calculators can't be shared during exams/quizzes, so please bring your own calculator to every class period\*\***

**Overview:** This course uses graphic, numeric, and analytic approaches to the study of precalculus concepts from college algebra. Application of appropriate technology including but not limited to graphic utilities to model, analyze, and interpret world application problems from a wide variety of disciplines. Topics include the real number system; algebraic, exponential and logarithmic functions and their inverses; graphing techniques for polynomials, rational, and trigonometric functions; complex numbers; theory of equations; partial fractions; mathematical induction; sequences and series; matrices; and the binomial theorem. This course along with Math 170 will satisfy the prerequisite for Calculus I at Grossmont College.

**A Student Who Has Successfully Completed This Course Will Be Able To:**

- A student will be able to categorize college algebra problems and use appropriate theorems, formulas, and algorithms to solve them.
- A student will be able to use the appropriate technology to solve problems requiring college algebra.
- A student will be able to formulate, analyze, and differentiate mathematical functions numerically, graphically, and symbolically at the college algebra level and have the ability to transition between these representations.
- A student will be able to communicate the mathematical process and assess the validity of the solution.

- A student will be able to analyze and graph polynomial function.

**Grading:** Your grade for the course is based on:

• Homework	15%
• Quizzes/Labs/Projects	15%
• 3 Hourly exams (15% each)	45%
• Final Exam (cumulative)	25%
<hr/>	
TOTAL	100%

The grading scale for this course is:

90 – 100 % = **A**, 80 – 89 % = **B**, 70 – 79 % = **C**, 60 – 69 % = **D**, Below 60 % = **F**

For Credit/No Credit option: 70 – 100 % = **Credit**, Below 70% = **No Credit**

**You can NOT get a passing grade in this class without taking the final exam!**

**Homework/** You will be assigned homework from the textbook and lab assignments on the computer.

**Comp. Lab:** Textbook homework is to be completed in *WebAssign* on the computer. The homework is to be written in a spiral notebook. I do not collect the homework. However, homework may be used on the quizzes!

Math is a subject learned by doing. Therefore doing your homework is very important to succeed in this class. Homework will be assigned daily. **I expect you to attempt all assigned exercises before the next class meeting.** I will answer your questions at the beginning of each class. The homework assignments are designed to **prepare you for exams and quizzes**, so if you are having difficulty with ANY homework assignment, please contact me for help or ask the tutors in the Math Study Center (Room 70-112). **We are here to help you SUCCEED!** Start each new section of homework at the **TOP** of a **NEW** sheet of paper. **LABEL** each section clearly. **Show all of your work.** Your lowest homework score will be dropped.

**Quizzes:** **Weekly quizzes will be given in this course.** Quizzes will be both in class on paper and in WebAssign. Because of this, it is important that you come to class every day, and come to class prepared! **Make-up quizzes will NOT be given.** However, your lowest 2 quiz scores will be dropped.

**Exams:** There will be 3 exams and a cumulative Final Exam. **No exams will be dropped.** Exams will cover material from the homework, textbook and handouts, as well as material presented in class.

***If you do not take an exam, you will receive a ZERO for it.***

**Late exams may ONLY be taken by PRIOR ARRANGEMENT or in the case of a DOCUMENTED emergency.**

Remember that it is **your responsibility** to contact me (by email, phone, mailbox, or in person) **immediately** if a conflict arises.

**Final Exam:** The final is **MANDATORY** and **CUMULATIVE** and will be given

**Tuesday, Dec 9th, 3:55 – 5:55 PM, Room 53-553**

***DON'T MAKE TRAVEL PLANS THAT CONFLICT WITH THIS DATE !!!!!***

**Attendance:** Attendance is required at each class meeting. Bring your text and calculator to every class. When absences exceed the number of hours that a class meets a week, the instructor may drop the student from the class (**You can be dropped from the class for having more than 2 unexcused absences**). It is the student's responsibility to discuss anticipated extensive absences with the instructor. Partial absences (late arrivals, long breaks, early exits, etc) will constitute a ½ day absence. Make-up work for an absence of any kind must be completed to the satisfaction of the instructor. No absence relieves the student of the responsibility of completing all work assigned. Please discuss any anticipated absences with me as soon as possible. In the event of an absence,

you are responsible for all material covered in class, turning all assignments in **on time** and any schedule changes or class announcements

**Supervised/  
Tutoring:** Students requiring additional help or resources to achieve the stated learning objectives of the courses taken in a Mathematics course may seek help in the Math Study Center.

Students are referred to enroll in the following supervised tutoring courses if the service indicated will assist them in achieving or reinforcing the learning objectives of this course:

- **IDS 198**, Supervised Tutoring to receive tutoring in general computer applications in the Tech Mall (for Math 80 – 97 only);
- **English 198W**, Supervised Tutoring for assistance in the English Writing Center (70-119); and/or
- **IDS 198T**, Supervised Tutoring to receive one-on-one tutoring in academic subjects in the Tutoring Center (70-229, 644-7387).

To add any of these courses, students may obtain Add Codes at the Information/Registration Desk in the Tech Mall. All Supervised Tutoring courses are non-credit/non-fee. However, when a student registers for a supervised tutoring course, and has no other classes, the student will be charged the usual health fee.

**Classroom  
Conduct:** You are expected to be courteous to each other and to the instructor. Your demeanor should support and respect the environment of learning inside the classroom. Inappropriate behavior will not be tolerated. A student may be excluded from class whenever the student exhibits behavior which interferes with the educational process. The instructor will determine when behavior is disturbing and appropriate action will follow. You are responsible for reading and adhering to the rules described in the “Student Conduct” section of the Grossmont College General Catalog.

Use of a cell phone or other non-approved electronic device is not allowed in class. Any student caught using a cell phone (calls, texting, or any other use) in class will be asked to leave class for that day and no makeups will be allowed for quizzes or exams missed as a result. In times of family crisis, you may set your cell phone on vibrate. Surfing the Internet during lecture is also strictly prohibited.

Movement and chitchat in the classroom disrupts your classmates and the instructor. This includes leaving class, coming in late, passing notes and chatting with the person next to you about non-math related topics. Because of the size of this class it is very important that all students be respectful of those trying to learn. Again, I encourage you to ask questions in class. Just know that if you have a question related to the class, someone else is certain to be wondering the same thing; So please ask!

Visitors may be allowed into the classroom only with the instructor’s prior approval. If you bring food or beverages into the classroom, please clean up after yourself. If you must arrive late or leave early, take the first seat near the door.

**Academic  
Integrity:** Cheating and plagiarism (using one’s own ideas, writings or materials of someone else without acknowledgement or permission) can result in any one of a variety of 8 sanctions. Such penalties may range from an adjusted grade on the particular exam, paper, project, or assignment (all of which may lead to a failing grade in the course) to, under certain conditions, suspension or expulsion from a class, program or the college. Class assignments, exams, and quizzes that are missed during a suspension are not eligible for make-up. IN addition, suspended days are counted as absences. For further clarification and information on these issues, please consult with your instructor or contact the office of the Assistant Dean of Student Affairs.

**Students w/ Disabilities:** Students with disabilities who may need accommodations in this class are encouraged to notify me and contact Disabled Student Programs and Services (DSPS) **early in the semester** so that reasonable accommodations may be implemented as soon as possible. Students may contact DSPS in person (Room 110) or by phone (619) 644-7112 (7119 is TTY for deaf).

**Expectations:** Enrolling in a course represents a commitment to attend class and to participate fully in the learning process. I expect students to come to every class **on time**, prepared for that day's lecture. I expect students to be attentive during lectures, to take notes, and to remain seated until class is over. I expect students with questions about the material to ask them before, during and after class. I expect students to put in the effort required to succeed in this course!

**TIPS FOR SUCCESS:**

1. Get to class on time, every day.
2. Listen attentively to the lectures and take careful notes.
3. Asks questions in class when you don't understand.
4. Do the homework! Attempt ALL OF IT!
5. Make a math friend in class. Work in pairs or organize your own study group.
6. Get FREE tutoring – the Math Study Center is in Rooms 70-112.

Hours:	Monday – Thursday	8:00 am – 9:00 pm
	Friday	8:00 am – 3:00 pm
	Saturday	closed

7. Feel free to come to me with questions about concepts or problems you don't understand.
8. Keep a positive attitude!

**Important Dates:**

August 29:	Last day to drop without a “W” (and for refund)
September 1:	Holiday (Labor Day)
September 19:	Last Day to apply for P/NP option.
November 7:	Last day to drop classes with a “W”
November 11:	Holiday (Veterans’ Day Observed)
November 27-29:	Holiday (Thanksgiving)
December 9:	Final Exam @ 3:55 PM – 5:55 PM, Room 53-553

*This course adheres to the policies outlined in the Grossmont College Catalog. See the Academic Policies stated in the catalog.*

**INSTRUCTOR:**  
**Orr**

**Math 175 Tentative Schedule**  
**Fall 2014**

**Section #: 3484**

<b>Week</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
Week 1 8/18 – 8/22		Intro, 1.6, 1.7		1.8, 1.10	
Week 2 8/25 – 8/29		2.1, 2.2		2.3, 2.4	<b>Last Day to Drop w/out W</b>
Week 3 9/1 – 9/5	<b>Holiday Labor Day</b>	2.5, 2.6		2.7, 3.1	
Week 4 9/8 – 9/12		3.2, 3.3		3.4, 3.5	
Week 5 9/15 – 9/19		3.6, 3.7		3.7, Review	
Week 6 9/22 – 9/26		<b>Exam #1 Ch. 1-3</b>		4.1, 4.2	
Week 7 9/29 – 10/3		4.3, 4.4		4.5, 4.6	
Week 8 10/6 – 10/10		10.1, 10.2		10.3	
Week 9 10/13 – 10/17		10.4, 10.5		10.5, 10.6	
Week 10 10/20 – 10/24		10.6, 10.7		10.8, 10.9	
Week 11 10/27 – 10/31		10.9, Review		<b>Exam #2 Ch 4 &amp; 10 Exam</b>	
Week 12 11/3 – 11/7		11.1, 11.2		11.3, 11.4	<b>Last Day to Drop</b>
Week 13 11/10 – 11/14		<b>Holiday Veterans Day</b>		12.1, 12.2	
Week 14 11/17 – 11/21		12.3, 12.5		12.5, 12.6	
Week 15 11/24 – 11/28		12.6, Review		<b>Holiday - Thanksgiving</b>	<b>Holiday - Thanksgiving</b>
Week 16 12/1 – 12/5		<b>Exam #3 Ch. 11 &amp; 12</b>		Review for Final	
Week 17 12/8 – 12/12		<b>FINAL EXAM 3:55 – 5:55 PM Room 53-553</b>			

**NOTE: This Schedule is subject to change.**

The following homework assignments are already in **WebAssign**. These are the corresponding problems in the book if you choose to complete them for more practice.

Page	Section	Problems
41	1.4	1-4,7,9,11,15,19,23,27,31,35,39,43,47,51,61,63,67,69,75,77,79,81,89,91
54	1.5	1-6,13,17,19,23,27,31,37,41,45,49,53,57,61,65,69,73,75,79,83,87,97,99,101,103,113
67	1.6	7, 9, 15, 21, 25, 27, 31, 35, 37, 41, 44, 49, 51, 57, 69, 71, 75, 77, 79, 85
80	1.7	19, 23, 25, 31, 34, 35, 39, 43, 55, 57, 65, 73, 77, 83, 87
92	1.8	11, 19, 23, 25, 27, 31, 35, 53, 58, 66, 69, 76, 77, 79, 81, 83, 85, 93, 95, 99, 105, 108, 109, 111
115	1.10	5, 11, 13, 15, 17, 19, 23, 27, 31, 35, 37, 67, 69, 71, 72, 75
149	2.1	1-5, 7, 21, 27, 29, 31, 35, 39, 47, 49, 55, 69, 77, 79, 81
159	2.2	11, 15, 19, 20, 29, 31, 35, 39, 45, 49, 51, 53, 55, 81
168	2.3	1-5, 8, 19, 21, 27, 31, 33, 35, 39, 41, 49
177	2.4	1-5, 7, 11, 15, 17, 27
187	2.5	1-4, 5, 6, 10, 21, 23, 25, 55, 59, 61, 62, 65, 77, 79
196	2.6	1-5, 7, 9, 11, 15, 21, 23, 25, 27, 29, 35, 41, 45, 59
204	2.7	1-5, 7, 15, 19, 21, 23, 37, 43, 51, 57, 63, 85, 89
207	Ch. 2 Review	Optional, not collected
229	3.1	1-5, 7, 9, 11, 13, 15, 17, 51, 53, 55, 59, 61, 65
243	3.2	1-4, 9-15, 19, 23, 27, 31, 35, 39, 47, 53, 55, 61, 63
251	3.3	1-3, 7, 11, 15, 19, 27, 31, 35, 43, 47, 51, 55, 59, 63, 65, 67
260	3.4	1-5, 9, 13, 17, 21, 33, 43, 47, 51, 55, 59,67, 69, 71, 73, 75, 77, 79, 83, 85, 99, 103, 105
268	3.5	1-5, 9, 13, 17,19, 25, 29, 33, 37, 41, 45, 50, 54, 57, 63, 67
276	3.6	1-5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 65
289	3.7	1-7, 11, 15, 19, 27, 29, 33, 37, 41, 45, 49, 53, 57, 65, 69, 73, 77, 81, 83, 85
292	Ch. 3 Review	Optional, not collected
307	4.1	1-4,5,7,8, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33,35, 37, 39, 41, 47, 49, 51
312	4.2	1-2,5,7,9,13,21,23,25,31
322	4.3	1-4,5,9,11,13,17,21,23,25,29,31,33,37,39,41,45,49,53,55,63,6769,71,75,87,91
329	4.4	1-6,7,9,17,21,25,29,33,37,41,45,49,57,61,65
338	4.5	1-3,5,9,11,15,21,23,25,37,41,45,49,53,59,67,75,79,83
350	4.6	1,5,9,11,13,17,21,25, 29, 33, 37,41
353	Ch. 4 Review	Optional, not collected
638	10.1	1-4,5,9,13,17,21,25,29,31,47,57,61,67,71
646	10.2	1-2,5,7,11,13,15,17,19,23,27,31,35,37,39
659	10.3	1-4,5,9,11,13,15,19,23,27,29,31,33,35,39,51,55
669	10.4	1-4,7,9,11,13,17,21,25,29,33,37,41,45,47
680	10.5	1-2,3,7,11,15,19,23,27,31,35,39,43,47, 49, 54
690	10.6	1-4,7,11,13,15,17,19,23,27,31,35,39,49,51
697	10.7	1-2,5,9,13,17,21,25,29,33,37,41,45

701	10.8	1-2,7,9,11,15,19,23,29,33,39,41
708	10.9	1-2,5,13,15,19,23,31,37,45,51
710	Ch 10 Review	Optional, not collected
730	11.1	1-4,5,7,9,11,13,15,17,25,29,33,35,37,39,41,45,55
738	11.2	1-5,7,9,15,19,21,23,25,27,29,33,35,39,41, 43,45,55
747	11.3	1-4,5,7,9,11,15,17,21,23,27,31,35,37,41
755	11.4	1-4,5,7,9,11,13,15,17,19,21,25,29,31,33
772	Ch 11 Rev.	Optional, not collected
792	12.1	1-2,5,9,11,13,15,23,25,27,31,33,35,39,43,45, 55,59,61,65, 63, 69, 71,73,75
798	12.2	1-4,5,7,9,13,15,17,21,25,29,33,35,37,41,45,49,53,57,61,63
805	12.3	1-4,5,9,13,17,21,25,29,33,37,41,45,49,53,57,61,63,65,67,69,71, 77,79,81
812	12.4	OMIT
819	12.5	1-2,3,5,7,9, 11, 13
827	12.6	1-4,5,9,11,13,15,17,21,22,25,29,31,33,35,37,39