Math 20  Elementary Algebra  Summer 2013  
Course Information (Section 30767)  

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**Course Outline**

**Course Description:**

*Prerequisite:* Math 15 (Pre-Algebra) with a grade of "C" or better or math skills clearance.

This course includes the properties of real numbers, factoring, solving and graphing linear equations, polynomials and rational algebraic expressions and linear systems of equations.

**Student Learning Outcomes:**

Upon successful completion of MATH 020 F Intermediate Algebra the student will be able:

1. to identify an equation as linear, quadratic, or rational and solve the equation using an appropriate method.
2. to perform operations on and simplify polynomials, rational expressions, or radical expressions at an introductory level.
3. to perform factoring of polynomials.
4. to construct the graph of a linear equation and identify its slope.

**Homework:**

Homework problems are assigned for each section we cover. All homework will be done online. Assignments will not be collected in class, but will still be used in considering your course grade. The assigned problems are for your benefit. If you do not do the homework on a regular basis, you will not be successful on the quizzes and tests. Homework will count 300 points towards your course grade.

**Quizzes:**

There will be 11 short quizzes given on the dates indicated on the syllabus. The one lowest quiz (1) score will be dropped in computing your course grade. You can take each quiz up to three times and your best score will be used. **There will be no make-up quizzes or additional attempts provided for any reason.** Quizzes will also count a total of 100 points toward your course grade.

**Exams:**

There will be 4 exams given on the dates indicated on the syllabus and a comprehensive final exam given the last class meeting. The exams will cover the following material:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Text Sections</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>Thursday, June 13</td>
<td>Chapter 1, Sections 1 – 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chapter 2, Sections 1 – 8</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Wednesday, June 19</td>
<td><em>Chapter 3, Sections 1 – 5</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>Chapter 4, Sections 1 – 5</em></td>
</tr>
<tr>
<td>Exam 3</td>
<td>Thursday, June 27</td>
<td>Chapter 5, Sections 1 – 7</td>
</tr>
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<td></td>
<td></td>
<td>Chapter 6, Sections 1 – 6</td>
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<tr>
<td>Exam 4</td>
<td>Tuesday, July 9</td>
<td>Chapter 7, Sections 1 – 7</td>
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<tr>
<td></td>
<td></td>
<td>Chapter 8, Sections 1 – 6</td>
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</tbody>
</table>
Each midterm exam counts 100 points and the final exam counts 200 points. The lowest online midterm exam score (1) will be dropped in computing your course grade. You can take each online exam up to 3 times and your best score will be used. There will be no make-up exams or additional attempts provided for any reason. Exams will count 300 points toward your final course grade.

Final Exam
The final Exam is comprehensive. It is scheduled for Thursday, July 11, 2013 from 11:00 - 1:00. All students are required to take the final examination. The final may not be dropped. Failure to attend the final exam will result in a grade of an "F" for the course. Students are responsible to make arrangements to be available at the time of the exam. The final exam will count 200 points towards your final course grade.

Grading
Your grade in Math 20 online is based upon the combination of your homework, quiz, and exam scores as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>300</td>
</tr>
<tr>
<td>Quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Midterm Exams</td>
<td>300</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td>Total Points</td>
<td>900</td>
</tr>
</tbody>
</table>

With grading scale:
A 90 - 100%  B 80 - 89%  C 70 - 79%  D 60 - 69%  F 0 - 59%

You can access your grade on the web at any time during the semester. The web address is http://sc.webgrade.classmanager.com/FullertonCol1 Select the class Math 20 OL. Your id is your student id and your password will be given to you during your first on campus exam (Exam #2) or after you send an e-mail to the instructor requesting the information if you miss Exam #2 on campus.

Withdrawal Policy
While an instructor officially may withdraw a student who has poor attendance, it is the student’s responsibility to withdraw if the student does not continue in attendance. If your name appears on the roster at the end of the year, I must give you a grade. Failure to withdraw yourself from the course may result in the student receiving a failing grade.

The first withdrawal deadline is Thursday, June 11, 2013. No “W” shall be recorded on the student’s transcript when withdrawing from the course.

The second withdrawal deadline is Wednesday, July 2, 2013. A “W” shall be recorded on the student’s transcript when withdrawing from the course.

Math Lab
The math lab can be used as an additional resource for you success in this course. Students wishing to use the math lab this semester must enroll in the Improving Math Skills course, Math N01 F prior to the add deadline. It is a 0 unit course. For more information, go to http://math.fullcoll.edu/mathlab.html.
AMERICANS WITH DISABILITIES ACT (ADA) STATEMENT
Fullerton College is committed to providing educational accommodations for students with disabilities upon the timely request by the student to the instructor. Verification of the disability must also be provided. The Disability Support Services office functions as a resource for students and faculty in the determination and provision of educational accommodations.

ACADEMIC HONESTY POLICY
Students are expected to abide by ethical standards in preparing and presenting material which demonstrates their level of knowledge and which is used to determine grades. Such standards are founded on basic concepts of integrity and honesty. These include, but are not limited to, the following areas:
1. Students shall not plagiarize
2. Students shall not cheat
3. Students shall not furnish materials or information in order to enable another student to plagiarize or cheat. Instructors may deal with academic dishonesty in one or more of the following ways:
   1. Assign an appropriate academic penalty such as an oral reprimand or point reduction.
   2. Assign an “F” on all or part of a particular paper, project, or exam.
   3. Report to the appropriate administrators, with notification of same to the student(s), for disciplinary action by the College. Such a report will be accompanied by supporting evidence and documentation.
Repeated violations may result in students receiving an “F” in the course; suspension or dismissal from the College.

EMERGENCY RESPONSE STATEMENT
Take note of the safety features in and around the classroom. Also, please study the posted evacuation routes. The most direct route of exit may not be the safest. Running out of the building during earthquakes may be dangerous. During strong earthquakes, it is recommended to duck, cover, and hold until the quaking stops. Follow the guidance of your instructor. Your cooperation during emergencies can minimize the possibility of injury to yourself and others.

FULLERTON COLLEGE CATALOG AND CLASS SCHEDULE
The Fullerton College Catalog and the Class Schedule contain a number of policies relating to students that are important to you. Please be sure that you have read these publications thoroughly. You may purchase copies of these publications at the campus bookstore, or you may read them online at the Fullerton College website, www.fullcoll.edu.

STANDARDS OF STUDENT CONDUCT AND DISCIPLINE POLICY
The standards of student conduct and disciplinary action for violation of Board Policy 5500 were approved by the NOCCCD Board on January 28, 2003, and were drawn in compliance with Sections 66300, 76030, 76033, 76034, 76036 of the State Education Code. Students are expected to respect and obey civil and criminal law and shall be subject to the legal penalties for violation of the city, county, state, and national law(s). Student conduct must conform to Board Policy and college regulations and procedures. As cited in BP5500, “A student who violates the standards of student conduct shall be subject to disciplinary action including, but not limited to, the removal, suspension or expulsion of the student.” Students have an obligation to familiarize themselves with the College’s policies, rules and regulations and to conduct themselves in a
reasonable, respectful manner, which is conducive toward attaining their educational goal. Upon registration, each student should obtain a copy of the College Policies and Regulations: Standards of Student Conduct and Discipline Policy. Contained therein are the policies approved by the Board of Trustees governing student behavior and the applicable penalties for violations of these policies. Copies are available in the Student Affairs Office, the Office of Equity and Diversity, all division offices, and the Student Services office.

**CHILDREN ON CAMPUS**

Children are not allowed on campus unless supervised by a parent or guardian. Children may not attend classes or computer labs (unless the course is specifically designed to include children.) Children must be supervised so educational activities are not interrupted and may not be left unattended in common areas such as the library, student center, food services area, quad or college parking lots.

**Suggestions on How to Study for this Course:**

1. **Read the text sections.** Reading the next section will introduce you to new concepts and ideas before they are introduced by your instructors notes.
2. Do all the assigned homework problems immediately after reading each section. When you work the homework, you should work a group of problems at a time before checking your answers with those in the back of the text. Be sure to make an honest attempt at a problem before looking up the answer.
3. If you have questions about the homework problems, get your questions answered as they arise, either by your instructor, others in the class, or in the Math Tutoring Center on campus. Don't save up your questions for any length of time.
4. Spend some time *every day* on the course. Spending comparatively little time each day will be more productive than saving up all your work for the weekend or for the week or day.
<table>
<thead>
<tr>
<th>Day (Date)</th>
<th>Sections To Be Completed</th>
<th>Homework Due</th>
<th>Quiz or Exam</th>
</tr>
</thead>
</table>
| Day 1 6/6  | 1.1: Fractions  
1.2: Exponents, Order of Operations, and Inequality.  
1.3: Variables, Expressions, and Equations.  
1.4: Real Numbers and the Number Line. | Homework #1  
Sections: 1.1,1.2,1.3,1.4. | Quiz #1 - Sections: 1.1,1.2,1.3,1.4. |
| Day 2 6/10 | 1.5: Add/Subtract Real Numbers.  
1.6: Multiply/Divide Real Numbers.  
1.7: Properties of Real Numbers.  
1.8: Simplifying Expressions. | Homework #2  
Sections: 1.5,1.6,1.7,1.8. | Quiz #2 - Sections: 1.5,1.6,1.7,1.8. |
2.2: Multiplication Prop. - Equality.  
2.3: More on Solving Linear Equations.  
2.4: An Introduction to Applications of Linear Equations. | Homework #3  
Sections: 2.1,2.2,2.3,2.4. | Quiz #3 - Sections 2.1,2.2,2.3,2.4. |
| Day 4 6/12 | 2.5: Formulas and Additional Applications from Geometry.  
2.6: Ratio, Proportion, and Percent.  
2.7: Further Applications of Linear Equations.  
2.8: Solving Linear Inequalities. | Homework #4  
Sections: 2.5,2.6,2.7,2.8. | |
| Day 5 6/13 | 3.1: Linear Equations in Two Variables - Rectangular Coord.  
3.2: Graphing Linear Equations in Two Variables.  
3.3: The Slope of a Line.  
3.4: Write/Graph Equations of Line.  
3.5: Graphing Linear Inequalites in Two Variables. | Homework #5  
Sections: 3.1,3.2,3.3,3.4,3.5. | Quiz #4 - Sections 3.1,3.2,3.3,3.4,3.5. |
| Day 6 6/17 | | | Exam #1 (Chapters 1 and 2)  
This exam is to be taken online! |
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| Day 7, 6/18 | 4.1: Solving Systems of Linear Equations by Graphing.  
4.2: Solving Systems of Linear Equations by Substitution.  
4.3: Solving Systems of Linear Equations by Elimination.  
4.4: Applications of Linear Systems.  
4.5: Solving Systems of Linear Inequalities. | Homework #6 |  |
| Day 8, 6/19 |  |  | Exam #2  
(Chapters 3 and 4)  
This Exam is to be taken on campus on Wednesday, 6/19, in room 521 from 11 to 1. |
| Day 9, 6/20 | 5.1: The Product Rule and Power Rules for Exponents.  
5.2: Integer Exponents and the Quotient Rule.  
5.3: An Applications of Exponents: Scientific Notation. | Homework #7 | Quiz #5 - Sections 5.1, 5.2, 5.3. |
| Day 10, 6/24 | 5.4: Adding and Subtracting Polynomials; Graphing Simple Polynomials.  
5.5: Multiplying Polynomials.  
5.6: Special Products.  
5.7: Dividing Polynomials. | Homework #8 | Quiz #6 - Sections 5.4, 5.5, 5.6, 5.7. |
6.2: Factoring Trinomials.  
6.3: More on Factoring Trinomials. | Homework #9 | Quiz #7 - Sections 6.1, 6.2, 6.3. |
| Day 12, 6/26 | 6.4: Special Factoring Techniques.  
6.5: Solving Quadratic Equations by Factoring.  
6.6: Applications of Quadratic Equations. | Homework #10 |  |
| Day 13, 6/27 |  |  | Exam #3  
(Chapters 5 and 6)  
This exam is to be taken online! |
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<th>Homework Due</th>
<th>Quiz or Exam</th>
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</table>
| **Day 14** | 7.1: The Fundamental Property of Rational Expressions.  
7.2: Multiplying and Dividing Rational Expressions.  
7.3: Least Common Denominators.  
7.4: Adding and Subtracting Rational Expressions. | Homework #11  
Sections: 7.1,7.2,7.3,7.4. | Quiz #8 - Sections 7.1,7.2,7.3,7.4. |
| 7/1       | 7.5: Complex Fractions.  
7.6: Solving Equations with Rational Expressions.  
7.7: Applications of Rational Expressions. | Homework #12  
Sections: 7.5,7.6,7.7. | Quiz #9 - Sections 7.5,7.6,7.7. |
| **Day 15** | 8.1: Evaluating Roots.  
8.2: Multiplying, Dividing, and Simplifying Radicals.  
8.3: Adding and Subtracting Radicals. | Homework #13  
Sections: 8.1,8.2,8.3. | Quiz #10 - Sections 8.1,8.2,8.3. |
| 7/2       | 8.4: Rationalizing the Denominator.  
8.5: More Simplifying and Operations with Radicals.  
8.6: Solving Equations with Radicals. | Homework #14  
Sections: 8.4,8.5,8.6. | |
| **Day 16** |  | None | Exam #4 (Chapters 7 and 8)  
This exam is to be taken online! |
| 7/3       |  |  |  |
| **Day 17** | 9.1: Solving Quadratic Equations by the Square Root Property.  
9.2: Solving Quadratic Equations by Completing the Square.  
9.3: Solving Quadratic Equations by the Quadratic Formula.  
9.5: More on Quadratic Equations; Quadratic Functions. | Homework #15  
| 7/10      |  |  |  |
| **Day 20** | Review!!!! | None | Final Exam (Chapters 1 - 9)  
This Exam is to be taken on campus on Thursday, 7/11, in room 521 from 11 to 1. |
| 7/11      |  |  |  |

**The above is a tentative schedule. All dates, topics, and assessments are subject to change at the discretion of the instructor.**
To work within CourseCompass, your computer must meet the following requirements for operating systems, connections speed and browser versions:

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Browser/Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows XP</td>
<td>Internet Explorer 6.0, 7.0; or Firefox 2.0.</td>
</tr>
<tr>
<td>Windows Vista</td>
<td>Internet Explorer, Version 7.0 or Firefox 2.0.</td>
</tr>
<tr>
<td>Macintosh OS 10.4</td>
<td>Firefox 2.0.</td>
</tr>
<tr>
<td>Macintosh OS 10.5</td>
<td>Safari 3.1.</td>
</tr>
</tbody>
</table>

If you have earlier versions of these browsers, you can download a newer version from the appropriate manufacturer’s website:
- For Internet Explorer, go to [http://www.microsoft.com](http://www.microsoft.com)
- For Firefox, go to [http://www.getfirefox.com](http://www.getfirefox.com)
- For Safari, go to [http://www.apple.com](http://www.apple.com)

**AOL and AT&T Yahoo Users:** You cannot view CourseCompass using the AOL or AT&T Yahoo browsers. You can, however, use AOL or AT&T yahoo as your Internet Service Provider to access the Internet, then open one of the supported browsers within AOL or AT&T Yahoo to access CourseCompass.

**Connection Speed:** CourseCompass requires an Internet connection with a minimum connection speed of 28.8 kbps. The faster your connection, the faster you will be able to view this site and some of your courses content. If you are experiencing slow download times, you may need a faster connection.

**Browser Settings:** CourseCompass uses cookies and JavaScript technology. Both of these features must be turned on in your browser, and are usually turned on by default. For instructions on how to view or change these browser options, see your browser help.

**Note:** Some course and multimedia components, such as MyMathLab, may have specific OS and browser requirements. Please check your specific product’s requirements to ensure a successful experience. For MyMathLab, see [http://www.mymathlab.com/system.html](http://www.mymathlab.com/system.html)

You can log into the course using the website [http://www.pearsonmylabandmastering.com](http://www.pearsonmylabandmastering.com)

Once you have reached the homepage of the website, you will need to click the **Register Button** under the **students** heading.

Before starting, it will ask that you to have the following:

**Valid E-Mail Address:** Make sure you list the correct one so I can correspond with you if need be.

**Course ID:** The course ID for your course is farnham49057

**Student Access Card:** If you purchased a new text, the access code will be bundled with the book. If you bought a used text, you can purchase one online for about $88 I believe.

Once you have these you can register and log into the system. Make sure to read the announcements before you do anything. You should be able to start your homework TODAY!!!!