Math 40 Intermediate Algebra (Hybrid - M) Spring 2015

Course Information (Section 21030) Room: 719 and Online

Instructor: Paul T. Farnham II Office: 618-0
Office Hours: MW 10:00 – 10:25 & 12:40 – 1:00
F 10:15 – 11:40
Online TR 21:00 – 21:50

Phone: 714-992-7395 E-Mail: Pfarnham@fullcoll.edu

Course Outline
Course Description:

Prerequisite: Math 20 (Elementary Algebra) with a grade of “C” or better or math skills clearance.

This course includes products and factoring, exponents and radicals, fractions, functions and graphs, linear and quadratic equations, linear inequalities, logarithms and related topics at an intermediate level.

Student Learning Outcomes:

Upon successful completion of MATH 040 F Intermediate Algebra the student will be able:
1. to identify an equation as linear, quadratic, radical, rational, exponential, or logarithmic and solve the equation using an appropriate method.
2. to produce the completely factored form of a polynomial.
3. to evaluate a function with a numerical or variable argument, and produce the graph of the function by plotting points

Homework:

Homework problems are assigned for each section we cover. All homework will be done online. A handout is provided. Assignments will 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 280 points towards your course grade.

Quizzes:

There will be 10 weekly quizzes given on the dates indicated on the syllabus. You can take each quiz up to 3 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 towards your course grade.

Calculators

You will need a scientific calculator for this course. They may be used on exams and in fact will be necessary for certain problems. Graphing calculators are not necessary but may be used on quizzes and tests.
Exams:

There will be 4 midterm exams given on the dates indicated on the syllabus and a comprehensive one hour and fifty minute final exam given during finals week. The midterm 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>Monday, February 23</td>
<td>Chapter 2, Sections 1 – 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chapter 3, Sections 1 – 6</td>
</tr>
<tr>
<td>Exam 2</td>
<td>Monday, March 16</td>
<td>Chapter 4, Sections 1 – 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chapter 5, Sections 1 – &amp; A.B.</td>
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<tr>
<td></td>
<td></td>
<td>Chapter 6, Sections 1 – 5</td>
</tr>
<tr>
<td>Exam 3</td>
<td>Monday, April 13</td>
<td>Chapter 7, Sections 1 – 6</td>
</tr>
<tr>
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<td></td>
<td>Chapter 8, Sections 1 – 7</td>
</tr>
<tr>
<td>Exam 4</td>
<td>Monday, May 4</td>
<td>Chapter 9, Sections 1 – 7</td>
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<td></td>
<td></td>
<td>Chapter 10, Sections 1 – 6</td>
</tr>
</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 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 towards your final course grade.

Final Exam

The final Exam is comprehensive. It is scheduled for Monday, May 18, 2015 from 10:30 - 12:35 p.m. 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 40 Hybrid - M 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>MathLab/Participation</td>
<td>58</td>
</tr>
<tr>
<td>Homework</td>
<td>280</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>938</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://www.eclassinfo.com/home.asp?id=pfarnham](http://www.eclassinfo.com/home.asp?id=pfarnham) Select the class Math 40 Hyb (M). Your id is your student id and your password will be given to you at your first on campus examination.

If you miss the first on campus exam, you can e-mail me for the information.
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 Sunday, February 8, 2015. No “W” shall be recorded on the student’s transcript when withdrawing from the course.

The second withdrawal deadline is Sunday, April 26, 2015. A “W” shall be recorded on the student’s transcript when withdrawing from the course.

Math Lab
The math lab is to be used as an additional resource for you success in this course. Students 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.

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.

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.

Suggestions on How to Study for this Course:
1. Read the text sections prior to their being discussed in class. Reading the next section will introduce you to new concepts and ideas before they are introduced by your instructor. Come to class prepared to ask questions about any new concepts that are not clear after reading the text.
2. Do all the assigned homework problems immediately after the section has been discussed in Class. 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 in class, in your instructor’s office, or in the Math Tutoring Center. Don’t save up your questions for the day before the exam.
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>Week (Date)</th>
<th>Sections To Be Completed</th>
<th>Homework Due</th>
<th>Quiz or Exam</th>
</tr>
</thead>
</table>
| Week 1     | 2.1: Linear Equations in One Var.  
              | 2.2: Formulas            | Homework #1  
              | Sections: 2.1,2.2,2.3,2.4. | Quiz #1 - Sections: 2.1,2.2,2.3,2.4. |
| 1/26 - 2/1 | 2.3: Applications of Linear Equations.  
              | 2.4: Further Applications of Linear Equations. |             |             |
| Week 2     | 2.5: Linear Inequalities in One Variable.  
              | 2.6: Set Operations and Compound Inequalities.  
              | 2.7: Absolute Value Equations. and Inequalities.  
              | 3.1: The Rectangular Coordinate System. | Homework #2  
              | Sections: 2.5,2.6,2.7,3.1. |             | Quiz #2 - Sections: 2.5,2.6,2.7,3.1. |
| 2/2 - 2/8  |             |             |             |             |
| Week 3     | 3.2: The Slope of a Line.  
              | 3.3: Linear Equations in Two Variables.  
              | 3.4: Linear Inequalities in Two Variables.  
              | 3.5: Introduction to Functions. | Homework #3  
              | Sections: 3.2,3.3,3.4,3.5. |             | Quiz #3 - Sections: 3.2,3.3,3.4,3.5. |
| 2/9 - 2/15 |             |             |             |             |
| Week 4     | 3.6: Function Notation/Lin. Func.  
              | 4.1: Systems of Linear Equations in Two Variables.  
              | 4.2: Systems of Linear Equations in Three Variables.  
              | 4.3: Applications of Systems of Linear Equations. | Homework #4  
              | Sections: 3.6,4.1,4.2,4.3. |             | Exam #1 (Chapters 2 & 3)  
              | This exam is to be taken online! |             |             |
| 2/16 - 2/22|             |             |             |             |
|             | President's Day  
              | NO CLASS!!! |             |             |
| Week 5     | 5.1: Integer Exponents and Scientific Notations.  
              | 5.2: Add/Subtract Polynomials.  
              | 5.3: Polynomial Functions, Graphs, and Composition.  
              | 5.4: Multiplying Polynomials.  
              | 5.5: Dividing Polynomials. | Homework #5  
              | Sections: 5.1,5.2,5.3,5.4,5.5. |             | Quiz #4 - Sections 5.1,5.2,5.3,5.4,5.5. |
| 2/23 - 3/1 |             |             |             |             |
| Week 6     | A.B: Synthetic Division.  
              | 6.1: GCF's; Factor by Grouping.  
              | 6.2: Factoring Trinomials.  
              | 6.3: Special Factoring.  
              | 6.4: A General Approach to Factoring. | Homework #6  
<pre><code>          | Sections: A.B.,6.2,6.3,6.4,6.5 |             | Quiz #5 - Sections A.B.,6.2,6.3,6.4,6.5. |
</code></pre>
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| **Week 7** | 6.5: Solving Equations by Factoring.  
7.1: Rational Expressions/Functions. Multiplying and Dividing.  
7.2: Adding and Subtracting Rational Expressions.  
7.3: Complex Fractions. | Homework #7  
Sections: 6.5,7.1,7.2,7.3. | Exam #2  
(Chapters 4, 5, & 6)  
This Exam is to be taken on campus on Monday, 3/16, in room 719 from 10:30 - 12:35. |
| 3/9 - 3/15 | | | |
| **Week 8** | 7.4: Equations with Rational Expressions and Graphs.  
7.5: Applications of Rational Expressions.  
7.6: Variation.  
8.1: Radical Expressions and Graphs. | Homework #8  
Sections: 7.4,7.5,7.6,8.1. | Quiz #6 - Sections 7.4,7.5,7.6,8.1. |
| 3/16 - 3/22 | | | |
| **Week 9** | 8.2: Rational Exponents.  
8.3: Simplifying Radical Expressions.  
8.4: Adding and Subtracting Radical Expressions.  
8.5: Multiplying and Dividing Radical Expressions. | Homework #9  
Sections: 8.2,8.3,8.4,8.5 | Quiz #7 - Sections 8.2,8.3,8.4,8.5 |
| 3/23 - 4/5 | | | |
| **Includes** | | | |
| **Spring Break** | | | |
| **Week 10** | 8.6: Solving Equations with Radical Expressions.  
8.7: Complex Numbers. Radical Expressions.  
9.1: The Square Root Property and Completing the Square.  
9.2: The Quadratic Formula. | Homework #10  
Sections: 8.6,8.7,9.1,9.2. | Exam #3  
(Chapters 7 & 8)  
This exam is to be taken online! |
| 4/6 - 4/12 | | | |
| **Week 11** | 9.3: Equations in Quadratic Form.  
9.4: Formulas and Further Applications.  
9.5: Graphs of Quadratic Functions.  
9.6: More about Parabolas and Their applications. | Homework #11  
| 4/13 - 4/19 | | | |
| **Week 12** | 9.7: Quadratic and Rational Inequalities.  
10.1: Inverse Functions.  
10.2: Exponential Functions.  
10.3: Logarithmic Functions. | Homework #12  
Sections: 9.7,10.1,10.2,10.3. | Quiz #9 - Sections 9.7,10.1,10.2,10.3. |
<p>| 4/20 - 4/26 | | | |</p>
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<th>Sections To Be Completed</th>
<th>Homework Due</th>
<th>Quiz or Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 13 4/27 - 5/3</td>
<td>10.4: Properties of Logarithms. 10.5: Common and Natural Logarithms. 10.6: Exponential and Logarithmic Equations; Further Apps. 11.1: Additional Graphs of Functions.</td>
<td>Homework #13 Sections: 10.4, 10.5, 10.6, 11.1</td>
<td>Exam #4 (Chapters 9 &amp; 10) This exam is to be taken online!</td>
</tr>
<tr>
<td>Week 16 5/18</td>
<td>Final Exam (Chapters 2 - 11) This Exam is to be taken on campus on Monday, 5/18, in room 719 from 10:30 - 12:35.</td>
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</tbody>
</table>

**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:

Windows XP  
Windows Vista
Internet Explorer 6.0, 7.0; or Firefox 2.0.
Internet Explorer, Version 7.0 or Firefox 2.0.

Macintosh OS 10.4  
Macintosh OS 10.5
Firefox 2.0.
Safari 3.1.

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
- For Firefox, go to http://www.getfirefox.com
- For Safari, go to 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

You can log into the course using the website 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 farnham20555

**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 $95.70 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!!!!