

**Intermediate Algebra****Math 105.04W****CRN# 10135****5.0 units****Instructor:** Yvette Butterworth**Phone:** (408)888-6160**Text:** *None*; **Beoga.net** material used**E-mail Address:** [butterworthyvette@fhda.edu](mailto:butterworthyvette@fhda.edu)**Hours:** Online **Except****Web Site:** Canvas (see instructions below)*Final* Thurs, 8/4 3:30pm**Skype:** profbutterworth**Student Learning Outcomes**

Upon completion of the course, the student will be able to:

1. Identify and describe the basic shape of the graph of the following functions: absolute value, rational, radical, quadratic, cubic, exponential, and logarithmic.
2. Solve algebraically, graphically and numerically the following: linear inequalities and absolute value, rational, radical, polynomial, exponential, and logarithmic equations.
3. Simplify the following expressions: rational, radical, polynomial, exponential, and logarithmic expressions.
4. Apply appropriate functions in a contextualized situation.

**Course Description:**

Math 105 is a 5 unit course in intermediate algebra which has been designed to advance your knowledge in the symbolic language of mathematics, the concepts of variables, problem solving skills used in conjunction with algebraic expressions and equations, and graphing. The course will review the real numbers with an emphasis on fractions, decimals and percentages through their application in simplifying algebraic expressions, solving equations, and solving word problems. A review of ratios, proportions, scientific notation, exponents, solving linear equations and inequalities in one variable and systems of 2 equations in 2 unknowns will also be included. The course catalogue states that the class will cover linear, quadratic, polynomial, rational, radical, exponential and logarithmic equations and expressions with an emphasis on graphing and applications. You may also expect coverage of linear inequalities in both one and two variables. Throughout the entire course we will be doing many real world problems that require the use of the skills you will be learning! A satisfactory score on the mathematics placement test or MATH 220 is required for entrance into this class. **This class must be added by Mon., 7/4, however if the class has reached its maximum enrollment by Friday, 7/1 I will no longer accept late add requests after 5pm.**

**Required Materials:**

On-line content from Beoga can be purchased and accessed through our Canvas shell; Scientific Calculator – TI 83 or 84; Pencils, Paper – lined and graph (for notes, graphing and homework), ruler.

**Canvas:****How to log in to Canvas:**

1. Log in to MyPortal (<https://myportal.fhda.edu>)
2. Click on the Student tab
3. Look for “My Online Courses” (this applies even if you are in a hybrid or traditional section)
4. Click on “Log into Canvas”

In Canvas click on the link to our class -- It will be titled, “**M16 Intermediate Algebra 04W**”

Once in the Canvas course site follow the instructions there.

In the Canvas site, you will notice a link to the website we will be using for the course called [beoga.net](http://beoga.net). There is no traditional textbook required for your class. Instead, you will be accessing online content that will take the place of a text. This content can be purchased and accessed by clicking on the “[beoga.net](http://beoga.net) ONLINE CONTENT” link in Canvas. At this web site you will be accessing online content, communicating with the class, taking exams & quizzes, and accessing homework.

## Troubleshooting

- If you are not able to log in to MyPortal, go directly to the Foothill College Canvas login webpage at <http://foothillcollege.instructure.com> and then type in your Student ID and Password.
- If you have problems accessing or logging into the course, go to the [Student Help Desk](https://foothillcollege.freshdesk.com) at <https://foothillcollege.freshdesk.com> or call the Foothill Online Learning office at (650) 949-7446.
- Once in Canvas, if you are having trouble paying for or accessing the [beoga.net](https://beoga.net) online content, send an email to [support@beoga.net](mailto:support@beoga.net) and they will quickly fix the issue.
- If all else fails, send an email to your instructor ([butterworthyvette@fhda.edu](mailto:butterworthyvette@fhda.edu)) and we will make sure you get help.

## Beoga Material:

Beoga will provide all graded and ungraded material **except** your final and the syllabus quiz. You will need to pay attention to due dates in Beoga. There are no extensions or make-up work in Beoga. The following are the assignments to pay attention for:

- Required Forum Posts for Non-Content Introduction Question & Each Chapter (you won't be reminded; these posts will be required the week before, during or after the material is "scheduled" on the calendar)
- 5 Quizzes (graded & can be replaced by final score; may be submitted 2 times)
- Midterm (can be replaced by final score; may also be submitted 2 times)
- Homework (ungraded self corrected & Beoga graded but they don't count toward your class grade)
- Practice Problems (graded; they don't count toward your class grade)

On the day each quiz/midterm is assigned click on the link at the Beoga.net content page. Each quiz will be accessible from Friday, 7/1 through the due date specified for each quiz. Quiz due dates will be Mondays at 6am Pacific Time Zone; pay attention to each quizzes' due date. You can log-in, access the quiz/midterm, print it out, log out, work on it at your leisure, then log back in and submit your answers. The only restriction is that you must submit the assignments by their deadline.

For multiple submissions, the highest score will be used to compute your grade. The purpose of this option is for you to correct any possible submission errors. After the maximum submissions, no changes are allowed. You will not be able to view solutions prior to the close of the assignment. *Multiple attempts are to help you handle such eventualities as bad Internet connections and other problems you may encounter when trying to submit answers.* I will not consider a correct problem for a different submission to replace an incorrect answer on a higher scored submission; please don't ask me as the request will not be granted.

Once you can see a grade to any assessment (in the grade book in beoga.net), you will notice that the grade is a live link – click on it to view the original questions, your responses, the correct answers, and detailed solutions to each problem. The key is to use each graded quiz as a learning tool in preparation for future assessments.

Here is how a missing quiz or poor midterm score will be dealt with:

**Example 1:** Quiz 3 score of 0 due to not taking it (or inability to submit it due to technical difficulties) & final exam score of 83% means quiz 3 grade becomes an 83%.

**Example 2:** Midterm score of 71% & final exam score of 84% means midterm grade becomes an 84%.

## Attendance:

"Attendance" to the "first class" is mandatory. The following constitute first attendance in this on-line summer course. Any student that does not take the syllabus quiz **and** register for Beoga by Sunday, 7/3 at midnight will be dropped. I will know when you are logged into Beoga because you will be in my gradebook, there is no alternative to being registered in Beoga by 7/3 at midnight, any class member not registered in Beoga by midnight 7/3 will be dropped. In addition, if you miss more than one quiz/midterm, prior to 7/27, without a discussion with me I reserve the right to drop you from the course. Please contact the instructor or the Admissions and Records Office if you can't continue. *Students on the final grade roster who have not dropped, and who do not show up for the final exam, automatically receive an F in the course – it is your responsibility to drop yourself from the class if you don't wish to continue.* The **refund deadline** is Wed., 6/29. The **NRS deadline** is Mon., 7/4. The **W deadline** is Wed., 7/27.

## Forums:

This is an important and required (see below for details) component of this course; it is the place where we will meet and interact –a virtual classroom. You can post any pertinent question in the **FORUMS ANYTIME** you have a question (24/7). When you post a question, everyone in the course can see it and ANYONE can answer the questions posted. It is important that you do NOT wait for me to answer the questions; if you know the answer then help out your fellow students. Answering a question will benefit you as well as your fellow classmates. Anytime you have to break down a question to explain your thoughts in writing, you are forced to really have a command of the subject.

This is a required component of my on-line class. You will be required to answer the introduction prompt in the Non-Content Questions Forum during your first week. You are required to ask and/or answer thoughtfully at least one question in each chapter covered. Your contributions will be recorded as complete or incomplete and your Participation (including the syllabus quiz) will be 5% of your overall grade. I will compute a percentage of contributions and take that percent of the 5% to compute your final grade.

I will monitor the FORUMS to make sure student answers are correct and to supplement answers to questions that I feel are in need of supplementary information. If you have a question just for me, please email me. If you ask a question in email that I feel the entire class will benefit from don't be surprised if I request that you post it on the FORUMS and don't answer for a bit. Just because I am not posting doesn't mean that I'm not monitoring. Do not expect me to be on-line 24 hours a day. I tend to be on-line at odd and inconsistent times (though I will plan a time to be available once per week based upon student feedback). I'm not always in front of an actual computer and monitor the FORUMS through the email notifications. I only respond when I feel absolutely necessary when I am not in front of a computer. Many of my responses will include video links and extensive explanations so I usually answer when I am at home in front of my personal computer.

Most important...ASK, ASK, ASK and just as important ANSWER, ANSWER, ANSWER!

## Quizzes & Midterm:

There will be 1 practice quiz, 5 quizzes and 1 midterm on Beoga. The first quiz is a practice quiz just to give you an idea of the format for all upcoming graded quizzes. This practice quiz will have unlimited attempts, so that you have ample opportunity to practice for the first quiz. Here is the schedule:

- Sample Quiz Chapter 1: Wednesday, June 22, 3pm Pacific **thru** Sunday, July 10, 11:59pm Pacific
- Quiz 1 (Chapter 1): Wednesday, July 1, 3pm Pacific **thru** Monday July, 11, 6am Pacific
- Quiz 2 (Chapter 2): Wednesday, July 1, 3pm Pacific **thru** Monday July, 11, 6am Pacific
- Quiz 3 (Chapter 3): Wednesday, July 1, 3pm Pacific **thru** Monday, July 18, 6am Pacific
- Midterm (Ch. 1 thru 4): Thursday, July 21, 3pm Pacific **thru** Monday, July 25, 6am Pacific
- Quiz 4 (Chapter 5): Wednesday, July 1, 3pm Pacific **thru** Monday, August 1, 6am Pacific
- Quiz 5 (Chapter 6): Wednesday, July 1, 3pm Pacific **thru** Monday, August 1, 6am Pacific

Quizzes have 2 attempts, so you can redo them 1 time to allow for ANY glitches in submission. Only your highest score, rounded to the nearest 100<sup>th</sup> of a percent, will be used to compute your grade. The questions will change with each attempt however. Once the due date for a quiz has passed, you will get a grade in the Beoga.net gradebook that will become a "live link". If you click on the grade you can then view each question, your response, and the correct solution. Notice that all quizzes are open from the beginning of the course until the time by which you should be completing the material to stay on task. This long window is so that you can work at your own pace.

Quizzes/Midterm can't be re-opened for ANY reason. **PLEASE BE AWARE OF YOUR TIMEZONE!** It is your responsibility to go over the material for each of the quizzes in advance of the quiz opening and to be prepared to take the quizzes that are open simultaneously. If you miss a quiz your final exam score will replace the quiz score. Your final exam score can also be replace any quiz score that is lower. This means that your final could potentially contribute to 80% of your grade. It is not wise to allow your final that much weight – the practice you get on each quiz is extremely valuable!

The Midterm will have two attempts as well with the same warnings as the quizzes – the two submissions are for glitches in submission. You can print the Midterm out, saving without submitting, work the problems, check and double check your work, and then log back into the Beoga.net material, enter your answers, save without submitting,

check that everything has been entered correctly, and then submit prior to the deadline stated above. NOTICE the midterm is only open for 4 days.

### Final Exam:

The final will be given on **Thursday, August 4, 2016 from 3:30-5:30pm**. The final will be cumulative; a practice final will be available on Beoga as a PDF file. The final exam is worth 50% of your grade and will replace any quiz or midterm score that is lower (this includes missed quizzes and midterm).

If you do not live in the San Francisco Bay Area you are eligible to have your final exam proctored. I have provided additional information in a separate document on proctoring. Please find the proctoring document on Beoga. Follow the instructions outlined by, Friday, July 15.

### Grades:

Quizzes	20%	<u>Percentage Ranges for Letter Grades</u>
Midterm	25%	<b>A:</b> 91.45%↑ <b>A-:</b> 89.45%-91.44%
Participation	5%	<b>B+:</b> 86.45% - 89.44% <b>B:</b> 81.45% - 86.44% <b>B-:</b> 79.45% - 81.44%
<u>Final Exam</u>	<u>50%</u>	<b>C+:</b> 76.45 - 79.44% <b>C:</b> 69.45 - 76.44%
<b>Total</b>	<b>= 100%</b>	<b>D:</b> 59.45% - 69.44%
		<b>F:</b> 59.44%↓

### Student Honesty:

Cheating will not be tolerated! You should be doing your own work on Beoga quizzes and midterm. Talking to anyone but me, helping another student during the FINAL, bringing notes of any type, copying information from another person's exam, using external sources of information for which you were not explicitly given permission to use (including any calculating device not explicitly stated as appropriate, phones and pda's included) is considered cheating. Students caught participating in such activities will be given an F in the course (regardless of class standing)! Cheating incidents will also be reported to the Dean of Students and further action could be taken in accordance with school policy.

### Student Grievances:

Please refer to the grievance policy in the college catalog if you have any questions.

### Student Special Services:

Students requiring special services or arrangements because of hearing, visual, or other disabilities should contact their instructor, counselor, advisor, or Disabled Student Services. To contact the Disabled Student Services you may:

- Visit the office in Room 5400 (near parking lot 5)
- Email the office at [adaptivelearningdrc@foothill.edu](mailto:adaptivelearningdrc@foothill.edu)
- Talk with the office by calling (650) 949-7017

I encourage all students with special needs to contact me as early as possible to arrange for any classroom assistance and to discuss your needs. If you have accommodations for testing you must sign up for Proctoring just as any student that is taking a test outside our classroom. Remember that it is your responsibility to make arrangements with testing services to take your final as close to the time of our final (our time is 3:30pm) as possible on Thursday, August 4.

## Additional Information:

I reserve the right to make changes or additions to my syllabus at any time during the quarter. I will notify you via class discussion of any changes or additions. The college catalogue overrides my syllabus at any time.

A class meeting in-person would require that you are in class 4 days per week for 2.25 hours with an additional 18 hours spent outside the class room per week. You should not expect to spend ANY LESS time per week when taking an on-line class. Many students take an on-line class thinking that it will somehow require less time or effort than an in-person class – this is a misconception. You are responsible for the same material, but you will need to acquire the information on your own. I set the pace of the material so that you can complete it by the day of the final. You have a lot of flexibility in how you spend your “class time” and study time, but you will still be spending a comparable amount of time to a student learning the material in an in-person class.

## Proposed Schedule by Week:

- Week 1(6/27-7/3) Syllabus Quiz (only material “quiz” due in Canvas; Required by noon of your 3rd day, or at latest Sun, 7/3, to remain enrolled)  
Registration and Log-In to Beoga (required by noon, Sunday 7/3 or you will be dropped)  
Introduction in Non-Content Forum  
Ch. 0 (Review of Algebra)  
Ch. 1 Linear Equations  
Ch. 2 Graphic Solutions of Linear Equations, Linear Inequalities  
Practice Quiz Ch. 1 (All quizzes & materials from now on are in Beoga)
- Week 2(7/4-7/10) Ch. 2 Absolute Value Equations and Inequalities  
Ch. 3 Exponents, Scientific Notation, Polynomial Functions, Multiplying Polynomials, Factoring GCF’s, Factoring Trinomials, Factoring Using Special Products  
**Quiz Ch. 1** Opens Friday, 7/1 3pm & Closes Monday, 7/11 6am Pacific  
**Quiz Ch. 2** Opens Friday, 7/1 3pm & Closes Monday, 7/11 6am Pacific
- Week 3(7/11-7/17) Ch. 3 Solving Equations Using Factoring  
Ch. 4 Rational Functions, Multiplying & Dividing Rational Expressions, Adding/Subtracting Rational Expressions, Simplifying Complex Fractions, Division of Polynomials, Solving Equations containing Rational Expressions, Rational Equations & Applications  
Ch. 5 Radical Functions  
**Quiz Ch. 3** Opens Friday, 7/1 3pm & Closes Monday, 7/18 6am Pacific
- Week 4(7/18-7/24) Ch. 5 Rational Exponents, Simplifying Radical Expressions, Addition/Subtraction of Radical Expressions, Rationalizing Numerators & Denominators, Solving Radical Equations, Complex Numbers  
Ch. 6 Completing the Square, Quadratic Formula, Solving Equations with Quadratic Methods  
**Midterm** Opens Thursday, 7/21 3pm & Closes Monday, 7/25 6am Pacific
- Week 5(7/25-7/31) Ch. 6 Nonlinear Inequalities in 1 Variable, Graphing Quadratic Functions, Applications of Quadratic Functions  
Ch. 7 Composition of Functions, Inverse Functions, Exponential Functions, Logarithmic Functions, Properties of Logarithms, Natural Logarithms, Change of Base Formula, Applications of Logarithms & Exponentials  
Take Sample Final  
**Quiz Ch. 5** Opens Friday, 7/1 3pm & Closes Monday, 8/1 6am Pacific  
**Quiz Ch. 6** Opens Friday, 7/1 3pm & Closes Monday, 8/1 6am Pacific
- Week 6(8/1-8/4) Review Ch. 7 Material  
Re-Take Sample Final (at end of Week 6 Material)  
**FINAL** In-Person at Foothill Campus, Thursday, 8/4 at 3:30pm in Rm TBA