

## MATH 105: INTERMEDIATE ALGEBRA (SUMMER 2014 ONLINE)



Course Duration: 5/12/2014 – 8/23/2014

### COURSE SYLLABUS

Please read the following course syllabus carefully, especially the course dates, times and location. If you have any questions, please do not hesitate to communicate with the IDEAL Program office, your academic advisor, or the instructor.

The IDEAL degree-completion program is designed with the adult learner in mind. Adult learners approach learning with specific goals, want to be able to directly apply new learning to their work and personal lives, and tend to learn best when the coursework is problem-centered so that they are actively engaged in the learning process. In addition, adults bring rich and varied experience to the classroom, which becomes a valuable learning resource for other students.

The IDEAL Program assumes joint responsibility in the learning process. The activities and assignments in the courses build on the shared experience of all learners in each class. This is why each student's preparation, participation and interaction in class activities and discussions are critical to the success of each course. The accelerated format of each course requires a significant amount your time outside the classroom to prepare for and complete the course assignments. This varies between students and courses; however, students typically spend nine-twelve hours per week on course material.

To participate in the IDEAL Program, it is expected that you will do the following:

1. Attend every class session. Be on time.
2. Obtain the required course materials prior to the first class session.
3. Complete the first assignment prior to the first class session and all subsequent assignments to the best of your ability.
4. Participate in the class discussions and demonstrate respect and consideration to the instructor and other students when they express themselves in discussion.
5. Complete all assignments timely.
6. If you have any technical difficulties, you must contact the Office of Distance Education immediately at [ubonline@bridgeport.edu](mailto:ubonline@bridgeport.edu).

If you cannot perform these five expectations, it is recommended that you drop the course. We look forward to your academic success in this course and the ultimate completion of your degree.

It is the student's responsibility to familiarize himself or herself with and adhere to the standards set forth in the policies on cheating and plagiarism as defined in Chapters 2 and 5 of the Key to UB <http://www.bridgeport.edu/pages/2623.asp> or the appropriate graduate program handbook.

### **E-mail correspondence**

It is imperative that you check your UB e-mail on a regular basis. All written correspondence, to include IDEAL and the University will be sent to you through your UB's e-mail. **The University can no longer correspond to your personal e-mail account(s).**

### **Have questions about taking an online course? Go to:**

"Instructions for Taking a UB Online Course"

[<http://www.bridgeport.edu/academics/online/yourfirstcourse.aspx>]

**The IDEAL Program**

University of Bridgeport

IDEAL program

MATH 105 DL1 SPRING 2014 Online (Course ID: **katundu52646**)

Intermediate Algebra Online

5/12– 8/23/2014

**Course Syllabus**

Instructor:           **Ambroise Katundu**

Instructor Contact Information: Email:   [akatundu@bridgeport.edu](mailto:akatundu@bridgeport.edu)

Office hours:       Online Discussion Board (or communicate via Message board)

Required Materials:

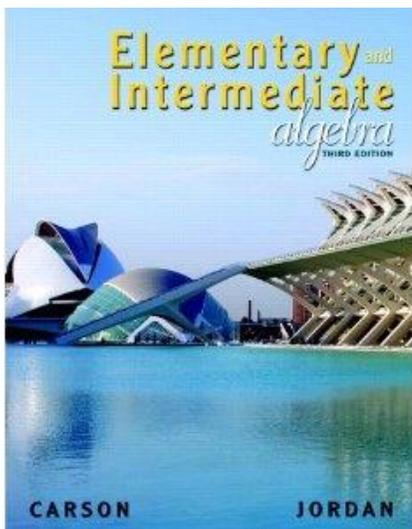
1) Basic Calculator with square root and exponent.

2) **MyMathLab Student Access Kit online supplement:** This is where all your homework assignments and quizzes will be completed. The purchase of a textbook is **optional** as the online supplement already contains the textbook in the “Multimedia Library” link. The cost for this supplement is approximately \$75.00. Go to: [Pearsonhighered.com](http://Pearsonhighered.com)..

Each student ***MUST*** create a My Math Lab account at the beginning of the semester. The course ID is **katundu52646**

After purchasing the access code, go to [pearsonmylab.com](http://pearsonmylab.com), click on register, student and enter the course ID in the box.

3) **Optional:** Textbook: *Elementary and Intermediate Algebra* Carson and Jordan 3<sup>rd</sup> edition. Publisher: Addison-Wesley (Pearson)



**Recommended for additional practice problems.**

**AVAILABLE AT THE BOOKSTORE**

## Evaluation and Grading Criteria:

Course Grades will be calculated based on the following weighting:

<b>3 Tests</b>	<b>300</b>
<b>Final Exam</b>	<b>200</b>
<b>7 Quizzes</b>	<b>200</b>
<b>MyMathLab HW</b>	<b>200</b>
<b>Discussions</b>	<b>100</b>
<b>Total Points</b>	<b>1000</b>

Extra Credit: There is no “extra credit” given in this course.

Grades: Final grades will be calculated and transferred to the following letter grades.

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

**Course Curriculum: (Also, refer to last sheet of this syllabus for a complete timetable).**

### **Review:**

Brief Review of Rules of Integers and Solving Equations from MAT 100.

### **Chapter 5: Polynomials**

Sections 5.1, 5.2, 5.3, 5.4, 5.5, and 5.6 (Dividing by Monomials Only)

### **Chapter 6: Factoring**

Sections 6.1 (GCF Only), 6.2, 6.3, and 6.4

### **Chapter 7: Rational Expressions and Equations**

Sections 7.1, 7.2, 7.4, 7.6, and 7.7

### **Chapter 4: Graphing Linear Equations and Inequalities**

Sections 4.1 (Brief Overview), 4.2 (Brief Overview), 4.3, 4.4, 4.5, and 4.7

### **Chapter 9: Systems of Linear Equations and Inequalities (Consistent Systems Only)**

Sections 9.1, 9.2, and 9.3

### **Chapter 10: Rational Exponents, Radicals, and Complex Numbers**

Sections 10.1, 10.2, 10.3, and 10.7

### **Chapter 11: Quadratic Equations and Functions**

Sections 11.1 (No Completing the Square) and 11.2

MY MATH LAB REGISTRATION PROCESS:

### What you need to get started:

1. A Valid Email Address: **Please use your most frequently used email address.**
2. A Course ID : **katundu52646**

### Step-by-Step Registration Instructions (including purchase)

- 1) Go to [www.coursecompass.com](http://www.coursecompass.com) and click on “Register as a student”. (You only need to register ONCE)
- 2) Choose “Get access to a new course” and click “Next”
- 3) Enter the Course ID which is: **katundu52646**
- 4) Verify that the course ID matches the name of this course and click “Buy Now”.
- 5) Choose “**No**” for “Do you have a Pearson Education Account?” and create a user name and password for your new account.
- 6) Fill in the remaining requested information (such as personal information, credit card information, etc.) and the following as directed: school zip code: **06604** country: **United States**
- 7) *You will use the login name and password you create to access My Math Lab the remainder of the semester.*

### Login Instructions (after you have registered):

- 1) Go to [www.coursecompass.com](http://www.coursecompass.com)
- 2) Click **Log in** under the **STUDENT** area.
- 3) Enter the login name and password that you created during registration.
- 4) At the **Welcome** page, you will see your course under the heading **Courses you are taking**. Click the course name to enter My Math Lab.
- 5) You must enable pop-ups from this site.
- 6) The first time you enter the site from your computer and anytime you use a new computer, click on the software **MyMathLab Installation Wizard** link in the Announcements page. This wizard will walk you through the installation of the software you will need to run MyMathLab.

### **STUDENT LEARNING OUTCOMES**

1. Through analyzing data either obtained numerically, graphically, or from a real world application, students will be able to create, manipulate, and interpret mathematical models of relationships between quantities. The types of patterns that they will be able to work with and distinguish between are linear, exponential and quadratic.
2. Students will be able to translate between rule of 4 (graphic, symbolic, numerical/data, verbal/applied) function representations, and solve problems using their understanding of functions. They will be able to analyze and interpret inverse relationships at an introductory level.
3. Through successful problem solving, students will demonstrate an appreciation of the usefulness and beauty of mathematics.

## Course Objectives:

*Upon completion of this course the student should be able to:*

1. Model and solve word problems involving linear, quadratic and exponential functions
2. Broaden algebraic computational skills to include linear and quadratic functions
3. Choose the appropriate linear, quadratic or exponential function to model data.
4. Graph and interpret the specific properties of linear, quadratic or exponential functions within the context of the problem.
5. Solve equations with linear, quadratic and exponential functions.

## ACADEMIC POLICIES

### Attendance Policy

Classroom attendance is an integral part of the academic experience; therefore, students are expected to attend all class sessions (**For Online courses, attendance means, submitting all due assignments on time or before the due date**). If an absence is unavoidable, the student, prior to class, should communicate with the instructor. Arrangements should be made at that time for submission of any missed assignments. It is also expected that students arrive on time and not leave until the class is dismissed. Tardiness will result in a reduced grade for the course. If you cannot attend every class session you should consider dropping the course.

### IMPORTANT:

- Missing one class session will drop the final grade by one letter grade (for example if a student earns a grade of "B" in the course, the final grade would be a "C"). Online students must submit their first assignment before the end of the first week, to avoid this consequence.
- Missing two or more class sessions will be cause for a failing grade.
- Note: For 15-week courses; missing two class sessions will result in a letter grade drop and three or more will cause a failing grade.

### Drop Procedures

To drop a course, you must complete and submit a Schedule Change Request Form. The form can be accessed at the IDEAL Course Schedule webpage:

<http://www.bridgeport.edu/academics/continuinged/ideal-academic-degree-programs-and-certificates/ideal-course-schedule/>.

Please print and complete the form and fax the form to the IDEAL Office: 203-576-4537. Prior to dropping a course, the student should contact their IDEAL Academic Advisor to understand the implications to financial aid and/or degree plan progress.

Please review the drop fees and tuition refunds at the Academic Calendar; accessed at the IDEAL Course Schedule webpage (same link above).

## Cell Phones

Cell phones must be turned off (or placed on “vibrate”) while in the classroom. A cell phone call is disruptive and disrespectful to the other students in the class.

## Academic Dishonesty

The IDEAL program prohibits all forms of academic dishonesty. Academic dishonesty is normally defined as, but not limited to, the following two categories:

Cheating – Using inappropriate sources of information in an assignment or on a test. The following are examples of cheating taken from real student experiences:

Case #1: A student is enrolled in an introductory psychology course. He has co-workers who have taken the same course. As the end of the course approaches, he wonders how he will find the time to get the research paper finished, and asks one of his co-workers for help. His co-worker hands him a research paper that he submitted in a similar course. The student makes minor modifications to the paper, and submits it under his own name.

Case #2: A student enrolled in a humanities course is unsure about how to structure an essay. She is doing research on the World Wide Web, and comes across an essay written by a student from another university. Using her computer mouse, she copies and pastes the essay into her word processor. She goes to great lengths to re-word the paper in her own style, but essentially leaves the content and organization the same.

Plagiarism – Intentional as well as unintentional failure to acknowledge sources as well as the use of commercially available so-called “research papers” without full recognition of the source. Presenting as one’s own, the ideas, words, or products of another. The following are examples of plagiarism taken from real student experiences:

Case #3: A student is conducting research for a Civil War research paper. He has reviewed work on the Internet. Finding helpful information, he has summarized his findings without citing his sources. He believes that minor paraphrasing is all that is necessary.

Case #4: A student is writing a paper that requires her to address specific topics and problems in the assigned course textbook. She takes the information directly from the textbook with slight modification, without giving any citation. She thinks that since it is the course textbook, she doesn’t have to use quotations or citations.

Academic dishonesty applies to all courses, assignments or exams completed by students and submitted as their own original work, whether in person or by electronic means. The University does not tolerate cheating in any form. It is a serious breach of conduct with serious consequences. Instructors have the right to determine the appropriate penalty for academic dishonesty in their own courses; generally, however, such acts will result in a failing grade for the assignment and/or the course. The penalty for subsequent acts of academic dishonesty may include expulsion.

More information on how to recognize plagiarism can be found at this site:

[http://www.indiana.edu/~istd/plagiarism\\_test.html](http://www.indiana.edu/~istd/plagiarism_test.html)

## **ACADEMIC RESOURCE CENTER**

The Academic Resource Center is available for IDEAL students seeking help in their studies. The Center is staffed by writing professionals and peer tutors. More information can be found at:

<http://www.bridgeport.edu/pages/2209.asp> The Center is located on the 5<sup>th</sup> Floor of the Wahlstrom Library. Make an appointment or walk-in: Telephone: 203-576-4290. **Online Tutoring** is available at: [www.etutoring.org](http://www.etutoring.org). To use this free service you must have a UBNNet account.

### **Obtaining a UBNNet Account**

Every registered student should obtain a UBNNet Account. The account allows you to access MyUB; the portal for grades, library services, Canvas online learning system. Also, the account allows you access to computers in the Library and computer labs, and provides an email account in which the University sends out information. Go to: <http://www.bridgeport.edu/ubnet> - Click on "New UBNNet Account" and follow the instructions.

The @bridgeport.edu email address is the official email the University uses to send information to you. You can have your bridgeport.edu email forwarded to any other private email account you use.

Following the activation of your UBNNet account (takes 24 hours), login at:

<http://www.bridgeport.edu/email> and click on "forwards" at the top of the page. Follow the directions to forward email messages to your other account.

### **Accessing Your Grades & Schedule Online**

The WebAdvisor online information system allows students to search for available classes, check grades, view semester class schedule and verify your personal profile. Grades are generally posted 2-3 weeks following the end of a course. To access WebAdvisor, login in to MyUB and follow the WebAdvisor menu on the right. If you are carrying a financial balance, access to WebAdvisor will be restricted.

## Using the Library

Access to the Digital Library is through MyUB. On the MyUB home, in the central column, click on “myEureka Digital Library.” Research tools available:

- Search for books held at the library.
- Search the online databases for your academic field; business, counseling, human services, psychology, etc.
- Send questions to the Reference Librarian for assistance in research topics and searching strategy.

## Using Computers

Open access computer labs are available at three locations:

- Bridgeport – 1<sup>st</sup> floor of the Wahlstrom library. Check library hours of operation at: <http://www.bridgeport.edu/library>.
- Stamford – Room D; Check open hours at: <http://www.bridgeport.edu/stamford>
- Waterbury – Computer Lab; Check open hours at: <http://www.bridgeport.edu/waterbury>

## Course Cancellations

Any emergency necessitating the canceling of courses will be announced by the University through the Emergency Notification Telephone Line, (203) 576-4159. Please call this number for information on course cancellations. Also, information will be posted under “Latest News” on the UB home page, ([www.bridgeport.edu](http://www.bridgeport.edu)). Canceled classes will be made up either the week following the end of the course or in consultation between the instructor and the students as to day and time availability. Course cancellations are also announced on television and radio stations.

## IMPORTANT CONTACT INFORMATION

Office	Telephone	Email
Bridgeport Campus Security	(203) 576-4911	ubsecurity@bridgeport.edu
Bursar	(203) 576-4472	bursar@bridgeport.edu
Cashier	(203) 576-4682	cashier@bridgeport.edu
Financial Aid	(203) 576-4568	finaid@bridgeport.edu
Grade & Fee Report	203) 576-4692	grade_fee@bridgeport.edu
Registrar	(203) 576-4635	registrar@bridgeport.edu
Emergency Notification Phone	(203) 576-4159	
IDEAL Office	(203) 576-4800	idealinfo@bridgeport.edu

## CAMPUS CONTACT INFORMATION

Campus	Address	Telephone	Email
Bridgeport	126 Park Avenue Bridgeport, CT 06604	(203) 576-4800	idealinfo@bridgeport.edu
Stamford	5 Riverbend Drive Stamford, CT 06750	(203) 358-0700	ubstamford@bridgeport.edu
Waterbury	84 Progress Lane Waterbury, CT 06705	(203) 573-8501	ubwaterbury@bridgeport.edu

<b>Directions to IDEAL Campus locations</b>	<a href="http://www.bridgeport.edu/pages/2260.asp">http://www.bridgeport.edu/pages/2260.asp</a>
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To fill out your financial aid report to the Federal Government, please go online to [www.fafsa.ed.gov](http://www.fafsa.ed.gov).  
The school code for the University of Bridgeport is 001416.

Federal Student Aid Information: 1-800-433-3243

**COURSE OUTLINE FOR MATH 105 INTERMEDIATE ALGEBRA Spring 2014**

DATE	Week #	SECTIONS	TOPICS
May 12 –18	1	Chap 5, 6.1,6.2	Review polynomials from Math 100, GFC, factoring trinomials ( $a = 1$ )
May 19 –25	2	6.3, 6.4	Factoring trinomials ( $a \neq 1$ ), difference of the squares <b>Q1</b>
May 26 – June01	3	7.1, 7.2, 7.4	Simplifying, multiplying, dividing, adding, subtracting rational expressions
June 02 – 08	4	7.6, 7.7	Solving equations with rational expressions, Applications with rational expressions, <b>Q2</b> <b>Review and Test 1</b>
June 09 – 15	5	4.1, 4.2, 4.3	Math 100 review, coordinate system, graphing linear equations, intercepts
June 16 – 22	6	4.4, 4.5	Slope-intercept form, point-slope form <b>Q3</b>
June 23 – 29	7	4.6	Graphing linear inequalities
June 30 – Jul 06	8	4.7	Functions <b>Q4</b> <b>Review and Test 2</b>
Jul 07 – 13	9	9.1, 9.2, 9.3	Solving systems of linear equations graphically, by Substitution and by Elimination <b>Q5</b>
Jul 14 – 20	10	10.1	Radical expressions
Jul 21 – 27	11	10.2, 10.3	Rational exponents, Multiply and Divide radicals
Jul 28 – Aug 03	12	10.7	Complex numbers <b>Q6</b> <b>Review and Test 3</b>
Aug 04 – 10	13	11.1, 11.2	Square root principle, quadratic formula <b>Q7</b>
Aug 11 – 17	14	All sections	<b>Review for Final Exam</b>
Aug 18 – 23	15	All sections	<b>FINAL EXAM</b>