Math 91: Essentials of Intermediate Algebra
Item 6325: ONLINE

Instructor: Aaron Warnock
  Phone: 206-592-3668   **Office:** 18-201
  E-mail: awarnock@highline.edu
  Fax: 206-870-4850   *(Make sure you address any fax to me.)*

 Website: https://people.highline.edu/awarnock/   **MML:** https://mylabsplus.highline.edu/

Office Hours: *(available in person, online, by e-mail or appointment)*
  On Campus: Mon /Wed, 9:30 am - 11:30 am,
  Online Virtual Office*: Tues/Thurs/Fri daytime: *Various – e-mail me to schedule*
    Thursday night: 10:15 pm - 11:15 pm online* – *if I receive an e-mail from you*
      that you'd like to meet at this time
  click on "Virtual Office Hours" under Course Home

Course Summary:
Math 91 introduces you to the idea of functions – "input/output" relationships between two quantities that are used to describe patterns and trends, particularly over time. You will also extend your equation-solving ability to solving inequalities, compute with more complex operations like square roots and negative exponents, and use basic tools of statistics to describe sets of data.

Prerequisite: A Math 81 grade of 2.0 or higher; a Compass PREALGEBRA test score of at least 60 or ALGEBRA test score of at least 47; or an equivalent. (These are essentially proof that you can solve basic linear equations, simplify polynomials, evaluate formulas, read newspaper graphs, and use basic geometry.)

Learning Goals: At the end of this course you should be able to
1. Complete a variety of algebraic tasks, including calculating with roots of numbers, simplifying exponential expressions, and solving linear equations, inequalities, and systems of linear equations.
2. Define the concepts of function, domain, and range, then compute and describe features of several function types.
3. Define and identify slope, intercepts, and slope-intercept form, then use them to describe and construct linear equations and graphs for realistic situations.
4. Define and describe the features of exponential functions, then apply them to realistic situations.
5. Define quadratic functions, then compute features of their graphs and solve quadratic equations.
6. Describe her/his level of understanding before a formal assessment as well as steps she/he will take to improve.
7. Describe and consistently apply an effective strategy for solving problems.
8. Use formal terminology to describe his/her reasoning on a task as well as patterns in his/her errors.

Text: Beginning & Intermediate Algebra, Custom Print for Highline *(you will not find this book elsewhere!)*
    See the handout "First Day Tasks - Required Computer/Internet Tools" for text options.

Other Required Materials:
- **A graphing calculator**, preferably a TI-83 or 84. You can purchase one at most stores and online for $70 – 120, or can rent one for one quarter from the college for ~$30. Most other math classes will also require a graphing calculator, so you may want to purchase one. If you prefer to rent, go to building 6 to pay the fee, then take your receipt to the front desk of the Highline library.

- A notebook and folder (a 3-ring binder with pockets and extra paper is recommended), pens/pencils, eraser, and extra paper (possibly graph/grid paper).

MML: Our course takes place in MyLabsPlus (MLP) and MyMathLab (MML). Pay very close attention to the calendar and stay on top of all due dates. It is very important that you keep up with the homework and quiz assignments. You will be expected to spend 15-20 hours a week on MyMathLab studying, watching videos, and completing assignments. This is an online class, you will get out of it what you put into it. It's really up to you how well you will do this quarter. You must take responsibility for your own learning to succeed.

> **To Access MML, go to https://mylabsplus.highline.edu/ and login using your MyHCC login and password. If you have not activated your MyHCC account, you can do so at the help desk in building 30. You will need your access code from the bookstore to continue or you can purchase one online.**

Online Section Schedule: For each section of material, you will complete the following.

1. **Read** the section in the **Textbook** and take notes
    a. either hard copy or online

2. **Watch** the section **Video** in MyMathLab and **Aaron's Videos** & take notes
    a. this is a pre-requisite for doing the HW
    b. you MUST watch the videos Aaron creates because some topics are only covered here and will be on Relevant Applications and Exams. Blank copies of the notes can be found under **Aaron's Videos**

3. Complete the **Online MyMathLab Homework**
    a. MUST watch section video and Aaron's video first (pre-requisite)
    b. infinite attempts at each problem
    c. may be completed in multiple sittings
    d. accepted late up to 7 days past the due date for -20%

4. Complete the **Online MyMathLab Quiz**
    a. First attempt is "free" to take, 2nd and 3rd attempts require 70% on the HW (pre-requisite)
    b. 3 attempts on each quiz (highest score counts)
    c. each individual quiz must be completed in one sitting at each attempt (they are timed)
    d. these **CANNOT** be done late, once the deadline has passed, they are closed
    e. *once* during the quarter each student will be allowed one extension for a missed quiz

5. **Every week**, complete the **Relevant Application**
    a. Submit it to the **Dropbox** by noon on Friday (or midnight Thursday if you don't like "noon").
    b. On exam weekends, the Relevant Application is material that will be on the test, so make sure you've completed it before the test.

6. After each **Exam**, complete the **Partial Credit Request (PCR)**
    a. Submit it to the **Dropbox** (see above) by noon on Friday following the exam.
    b. This is probably the most important assignment we do (dramatically improves exam score)

> **IMPORTANT:**
> - **The due dates on the calendar are when the assignments are finally due. You should not wait until their due dates to complete them. Especially on exam weeks, make sure you are working ahead, because it will feel like a lot is due right before an exam. There is, but you're supposed to be working on it all through the week, and even working ahead.**
>
> - **You should always be writing out the problems and working them out with paper and pencil, even though you're submitting your answers online.**

Relevant Applications:
One of the emphases of this course is looking at the relevance of mathematics and how it applies to our real lives. So every week, you will have a "relevant application" assignment to see how the mathematics we're studying is relevant in the real world. **These will be available by Monday at noon, and are due on Friday at noon.** Please submit them to the dropbox on MyLabsPlus. If you must, you may fax them to me or drop them off physically, but the electronic dropbox is preferred.

Exams and Quizzes:
Four exams will be given during the quarter as well as a final exam. All exams are comprehensive and may contain material from the whole quarter to-date. *No make-up exams* will be given except for *extreme* circumstances, and you must notify the instructor **on or before the day of the exam.**

- Exams are taken in the new Testing Center, room 25-630 (the top floor of the library) on the dates below.
- There are limited spaces in the testing center, so an e-mail will go out each Monday before an exam with a sign-up list where you will pick one-hour slots from the times below. If your only available time is very specific, look for that e-mail on Monday's as it will be on a first-come first serve basis.
- The times are
  - **Fridays from 5 pm to 7 pm**
  - **Saturdays from 10 am to 1 pm**
- You will need picture ID to take the test, no notes or texts. Make sure you bring your graphing calculator.

Dates for the exams are as follows:

Exam 1: Jan. 27/28th **Exam 2:** Feb. 10/11th **Exam 3:** Feb. 24/25th **Exam 4:** March 9/10th

Final Exam: March 16/17th

Other Important Dates:
Jan. 16th – MLK Jr. Day – **campus closed**   *January 30th* – Last day to drop without a "W"
Feb. 20th – Presidents Day – **campus closed**   *February 29th* – Last day to withdraw with W"

Grades

Important Grade Details: There are two Mastery topics that you must pass with 80% in order to pass the course with a 2.0. This is strict requirement, and there will be no exceptions.

1. Functions and their properties
2. Linear Functions

The pre-requisite for all following courses is a 2.0 in Math 91, so it's very important that you take these mastery topics seriously. You will have 3 chances to pass this mastery test (the last chance on the final), but do your best to pass it in the first two attempts. You don't want the pressure of having to still pass a mastery on the final.

Grading: Your final grade is based on the following

Homework on MML	10%
Quizzes on MML	10%
Relevant Applications	12%
Exams	48%
Comprehensive Final Exam	20%

Grading Scale

96-100 = 4.0	85 = 3.1	75 - 76 = 2.2	64 = 1.3
94-95 = 3.9	84 = 3.0	73 - 74 = 2.1	63 = 1.2
92-93 = 3.8	83 = 2.9	71 - 72 = 2.0	62 = 1.1
91 = 3.7	82 = 2.8	70 = 1.9	60 – 61 = 1.0
90 = 3.6	81 = 2.7	69 = 1.8	58 – 59 = 0.9
89 = 3.5	80 = 2.6	68 = 1.7	56 – 57 = 0.8
88 = 3.4	79 = 2.5	67 = 1.6	55 = 0.7
87 = 3.3	78 = 2.4	66 = 1.5	0 – 54 = 0.0
86 = 3.2	77 = 2.3	65 = 1.4	

Math Resource Center (MRC): Students are encouraged to use the MRC (located in Building 26-319) as a place to study and get additional help outside of class and the instructor's office hours. This is a great place to work together with students from the rest of the class, or get tutoring from other students. You can even use MML on the computers in the center.

Computer Problems Helpline: The instructor cannot troubleshoot computer problems. Please call the helpline at 206-870-4880 or e-mail them at helpdesk@highline.edu. If your concern is about MLP or MML, e-mail helpdesk@highline.mylabsplus.com or call (888) 883-1299.

Special Concerns: If you have any special concerns about this class, please talk to me personally in my office. The more I know about you individually, the more I can help you be successful in this course. If you need course adaptations or accommodations because of a dis-Ability; if you have emergency medical information to share with me; or if you need special arrangements in case the building must be evacuated, please provide me with the Letter of Accommodation you have received from the Office of Access Services. Access Services is located in Building 99 room 180.

Academic Dishonesty: Cheating, plagiarism, and other forms of academic dishonesty are unacceptable at Highline Community College and may result in lower grades and/or disciplinary action. It is both your right and responsibility to be familiar with the document entitled: Student Rights and Responsibilities code WAC 1321-120 adopted by the Board of Trustees of Community College District 9 on December 17th, 2007. This is available in the counseling center or online at http://www.highline.edu/stuserv/vpstudents/srr.html.