Distance Math 098: Intermediate Algebra, Fall 2015

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Office: IB 2419 B (Second floor of the instructional building, freeway side, south end.)
Textbook: Beginning and Intermediate Algebra with Applications & Visualization, 3rd edition, by Rockswold & Krieger (hardcopy is optional)
Course Website: http://portal.mypearson.com/mypearson-login.jsp

Course description
This is a fast paced intermediate algebra course. Topics include linear equations and inequalities, graphing linear and quadratic equations, exponents, logarithms, polynomials, rational expressions, radicals, and solving quadratic equations. Emphasis will be on applications and problem solving.

The prerequisite for this course is the completion of Math 085 or Math 097, or its equivalent, with a grade of 2.0 or more.

The course materials and online homework are presented using the course management tool MyMathLab.

Course Outcomes
At the completion of the course, a student should be able to...

• work with different types of expressions (linear, polynomial, rational, radical)
• identify different types of equations and know how to solve them.
• solve application problems by using appropriate strategies
• be able to read and interpret graphs
• understand the different ways to represent a relationship (graphs, linear equations, and tables) and be able to easily move between them.

Course Requirements
• Purchase of a MyMathLab Access Code
• Internet access
• Email account
• A scientific calculator
• Course assignments completed by weekly due dates.
• Completion of all assessment tasks (tests and quizzes) on schedule.

Course materials
The course is completely online and uses the course management tool MyMathLab. Students will be expected to access the course materials online and complete online homework.

MyMathLab provides free access for first ten days of class. After the first 14 days of class, you must enter an access code to continue using MyMathLab. (The access code is available from the ebook purchase from the NSCC bookstore or may be purchased online.)
The purchase of the access code for the program gives you full access to the electronic textbook. Unless you want a physical copy of the book, there is no need to purchase one.

All answers to the problems in the textbook can be found online.

In addition to personal computer resources, you may also use the computers on NSCC campus: in the Math Learning Center, the Open Computer Lab and the library. If you do intend to use any of the school computers to work on, you will need to set up a NET ID account.

**Beginning, Working Through & Completing the Course**

**Before you register:**

When you register you will need to provide

1. **An email address** at which you can be contacted regularly.
2. **The course ID:** brannan67583
3. **An access code:** After you register, you get access to your course by either paying online or supplying the access code that was included with your textbook. You can get temporary access for the first 17 days of class.

**Step 1: Register for the course**

When you register, you enroll in your course and create an account, if you don't already have one.

1. Go to: [http://pearsonmylabandmastering.com](http://pearsonmylabandmastering.com)
2. On the right, under “Register”, click **Student**.
3. On the first Register page, enter the course ID **brannan67583** and then click **Continue**.
4. On the second Register page, check the course and instructor name in the box on the right to make sure you're enrolling in the correct course, **Math 098 Fall 2015**.
5. If you have never taken a Pearson online course: Click **Create** to get a new Pearson account. On the Create an Account page, you enter your account information and choose a username and password in the boxes. Look for tips on the left that help you answer. Then click Create Account.

   If you have previously taken a Pearson course (such as Math 097 distance) you may simply enter your username and password and click **Sign In**. (If you can't remember your username or password, click “Forgot your username or password?” to have your account information emailed to you.)

**Step 2: Get Access to the Course**

After you register, you will be directed to a page where you will be able to select an option to get access to the course. At this point, you can

1. supplying the access code that was purchased from the bookstore, or included with your textbook,
2. pay online using a credit card or PayPal
3. get temporary access.

   Click “**Get temporary access without payment for 14 days**”, at the bottom of the payment options page.

   Click **Yes** when asked whether you are sure you want temporary access. You will receive an email with payment instructions.
If you don’t use an access code, credit card, or PayPal within the 14 days, you will lose access to your online course until you pay.

When you finish, you see a confirmation page with your account and course information and you can start working in your online course.

**What’s Next?**

To complete the course successfully you will need to:

- Complete the online homework by the due dates set for each assignment
- Complete the quizzes as scheduled
- Complete the 3 written tests for the course on the due date

After you have registered for the course online you’ll be able to login directly at the MyMathLab main page. You will not need the class key again.

Follow the class schedule for topics, sections, tests and homework.

(See the schedule at the end of this syllabus.)

For each section:

- Read through the text, work examples and practice problems
- Watch the videos embedded in the electronic text (you can also find them under Multimedia Library)
- Work the online homework problems (under Assignments)
- If you need more practice, try homework problems at the end of each section in the textbook.

Students should be prepared to work 10 to 15 hours a week on the course materials (or more depending upon their level of preparation) which will include reading the text, watching online videos, practicing with both online and offline problem sets, and asking questions of the instructor or tutors when necessary.

**Assessment & Grading**

Assessment for Math 098 is based on online homework and on-campus written tests, with the following weighting:

<table>
<thead>
<tr>
<th>Online Homework &amp; Quizzes</th>
<th>30%</th>
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<tbody>
<tr>
<td>Written Tests</td>
<td>70%</td>
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</table>

Numerical grades will be awarded, according to the following standards:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Total %</th>
<th>Grade</th>
<th>Total %</th>
<th>Grade</th>
<th>Total %</th>
<th>Grade</th>
<th>Total %</th>
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<tbody>
<tr>
<td>4.0</td>
<td>95% and above</td>
<td>3.0</td>
<td>80 - 84%</td>
<td>2.0</td>
<td>70 – 74%</td>
<td>1.0</td>
<td>50 - 59%</td>
</tr>
<tr>
<td>3.7</td>
<td>90 - 94%</td>
<td>2.7</td>
<td>78 - 79%</td>
<td>1.7</td>
<td>65 – 69%</td>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>3.3</td>
<td>85 - 89%</td>
<td>2.3</td>
<td>75 - 77%</td>
<td>1.5</td>
<td>60 – 64%</td>
<td>NC</td>
<td>No Credit</td>
</tr>
</tbody>
</table>
Homework:

Homework exercises are done on the computer. There is no time limit. Homework counts for 30% of your final grade. To achieve 100% points for a homework assignment, it needs to be completed by the due date listed. If homework is completed after the due date there will be a 25% penalty. All homework must be completed before the final exam.

Quizzes:

There is a quiz scheduled for the end of each section. Quizzes are timed. Once you begin the quiz you will have 60 minutes to complete it. You have three attempts at each quiz. Quizzes must be taken by their due date. Quiz extensions are not available.

On-campus Written Tests:

There will be 3 on-campus tests.

Before taking the written test you must

1) Complete all the homework for the sections covered in that test
2) Complete the test review

All tests are closed book, and no notes are allowed. You are required to have a scientific calculator, and you cannot use a calculator on a phone.

Tests will be held on:

<table>
<thead>
<tr>
<th>Test Dates</th>
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<tbody>
<tr>
<td>TEST 1 – October 27, Tuesday 5:30 – 7:30 pm</td>
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<tr>
<td>TEST 2 – November 24, Tuesday 5:30 – 7:30 pm</td>
</tr>
<tr>
<td>TEST 3 – December 15, Tuesday 5:30 – 7:30 pm</td>
</tr>
</tbody>
</table>

If you are unable to take the test on-campus during the scheduled date and time, please contact me at least one week in advance to make alternate testing arrangements. Otherwise, I expect you to be on-campus for the exams. Missed tests are worth 0 points, unless discussed with me beforehand.

Proctors:

If you are unable to come to North Seattle Community College to take a written test you may find a qualified proctor to administer the test.

[From http://www.virtualcollege.org/resource/faq4.htm#proctored_exams]

“Most college facilities have a testing center staffed to proctor exams. Currently the North Seattle Testing Center is not providing proctoring services. For other schools you will need to call or email ahead to schedule an appointment at the Testing Center closest to you. You may also have a test proctored at a library or other educational institution. The North Seattle e-Learning office is also able to proctor exams during business hours with prearrangement. Your instructor will need to mail or email your exam to the testing location or give the proctor electronic access to the exam. It is important to determine if your course is fully online or primarily online. If your course is fully online you will be able to take a proctored exam at a location other than North
Seattle. If your course is partly online you may be required to make other arrangements with your instructor if you are not able to take the exam during the designated time.”

For more information on proctoring please see http://www.virtualcollege.org/resource/proctor.htm

**Student Support**

Technical: Online MyMathLab Student support is available at the Pearson website when you log on. For quick instructions on using web assign go to the Student Quick Start Guide; for more detailed instructions on using web assign go to the Student Guide.

Instructor Communication: The best way to reach me with questions is to email me. I check my email regularly Monday through Friday during the day. If you email me late Friday, or Saturday or Sunday, you will hear from me the following Monday.

Disability: Students with disabilities are encouraged to use Disability Services for support in implementing reasonable accommodations for their disabilities. If you have a disability that will affect your performance in this class and have an accommodation form from the Disability Office, please let me know.

Math Learning Center: Tutoring for all math students is available in the Math Learning Center, located on the ground floor of the new HSSR building. One or two elective credits can be earned by enrolling in Math 089. Information on credit is available from the instructor, Sam Wilson. If you are enrolled in Math 089, please contact Sam Wilson soon. MLC website: http://webshares.northseattle.edu/MLC/

Academic Dishonesty: Academic dishonesty in any form will not be tolerated and will result in a failing grade for the material for which the student has committed the offense of cheating. Any student found to be cheating on a test will receive a “0” grade for that test.
<table>
<thead>
<tr>
<th>Week beginning</th>
<th>Sections to cover online</th>
</tr>
</thead>
</table>
| Week 1 9/28    | 1. Review: Introduction to Algebra  
|                | 2. Review: Linear Equations and Inequalities  
|                | 3. Review: Graphing Equations  |
| Week 2 10/5    | 4. Review: Systems of Linear Equations in Two Variables  
|                | 5. Review: Polynomials and Exponents  
|                | 6. Review: Factoring Polynomials and Solving Equations  |
| Week 3 10/12   | 7.1 Introduction to Rational Expressions  
|                | 7.2 Multiplication and Division of Rational Expressions  
|                | 7.3 Addition and Subtraction with Like Denominators  
|                | 7.4 Addition and Subtraction with Unlike Denominators  |
| Week 4 10/19   | 7.5 Complex Fractions  
|                | 7.6 Rational Equations and Formulas  
|                | 7.7 Proportions and Variation  
|                | Chapter 7 Review  
|                | Chapter 7 Quiz  |
| Week 5 10/26   | Test 1 Review  
|                | **TEST 1** - Tuesday, October 27, 5:30 – 7:30 pm  
|                | 8.1 Functions and Their Representations  
|                | 8.2 Linear Functions  |
| Week 6 11/2    | 8.3 Compound Inequalities  
|                | 8.4 Other Functions and Their Properties  
|                | 8.5 Absolute Value Equations and Inequalities  
|                | Chapter 8 Quiz  |
| Week 7 11/9    | 10.1 Radical Expressions and Functions  
|                | 10.2 Rational Exponents  
|                | 10.3 Simplifying Radical Expressions  |
| Week 8 11/16   | 10.4 Operations on Radical Expressions  
|                | 10.5 More Radical Functions  
|                | 10.6 Equations Involving Radical Expressions  
|                | 10.7 Complex Numbers  
|                | Chapter 10 Quiz  |
| Week 9 11/23   | Test 2 Review  
|                | **TEST 2** - Tuesday, November 24, 5:30 – 7:30 pm  
|                | 11.1 Quadratic Functions and Their Graphs  
|                | 11.3 Quadratic Equations  |
| Week 10 11/30  | 11.4 The Quadratic Formula  
|                | 11.6 Equations in Quadratic Form  
|                | Chapter 11 Quiz  
|                | 12.2 Exponential Functions  |
| Week 11 12/7   | 12.3 Logarithmic Functions  
|                | 12.5 Exponential and Logarithmic Equations  
|                | Chapter 12 Quiz  |
| Finals Week 12/14 | Test 3 Review  
|                | **TEST 3** - Tuesday, December 15, 5:30 – 7:30 pm  
|                | All exams, homework & assignments must be completed by 12/15 |