Course Syllabus for Math 95: Intermediate Algebra

Portland Community College
CRN 34212 • 4.0 Credits • Summer 2013
Monday/ Wednesday 12:00 PM - 3:20 PM • SS 112
Sylvania Campus • 12000 SW 49th Ave. Portland, OR 97219

Instructor: Ann Cary
Office Location: ST 104
Phone: 971-722-7590
Fax: 971-722-8259
Email: ann.cary@pcc.edu

Office Hours

<table>
<thead>
<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>By appt. after 3:30 PM</td>
<td>ST 104</td>
</tr>
<tr>
<td>Wednesday</td>
<td>By appt. after 3:30 PM</td>
<td>ST 104</td>
</tr>
</tbody>
</table>

Course Webpage
All materials for the course are posted on my course webpage:
http://www.spot.pcc.edu/~acary

Required Materials

- Textbook: Intermediate Algebra with Applications and Visualization (PCC Custom Edition) by Rockswold
- Course Supplement: For sale in the bookstore or download at http://spot.pcc.edu/math/download.htm
- Calculator: Graphing calculator required. TI-89 Titanium or Casio Classpad 330 recommended.
- Other materials: You will need graph paper, a ruler or straightedge, a pencil, and an eraser. A three ring binder is highly recommended.
Prerequisite

Prerequisite: MTH 63, MTH 65 or MTH 70 and placement into WR 115.

Course Content

Explores functions graphically and symbolically with an emphasis on function notation. Investigate functions, equations, and graphs involving quadratic, rational, radical, and absolute value expressions. Technology is integrated throughout. For details, see http://www.pcc.edu/ccog/default.cfm?fa=ccog&subject=MTH&course=95.

Course Outcomes

Upon successful completion students should be able to:

- Use quadratic, rational and radical models in academic and non-academic environments.
- Recognize connections between graphical and algebraic representations in academic and non-academic settings. Interpret graphs in academic and non-academic contexts.
- Be successful in future coursework that requires the use of algebraic concepts and an understanding of functions.

Electronic Devices

Electronic devices besides your calculator are not appropriate for class. Calculators on your cell phone may NOT be used for exams. If your cell phone is used at any point during an exam, you will receive a score of zero on the entire exam. I will have a few calculators available on exam days, but my supply is very limited. If there are computers in our classroom, they should only be used during breaks and/or during class for class activities. All cell phones should be turned off while class is in session. If you feel you have special circumstances and need to leave your phone on, it must be turned to vibrate or silent. If there is an emergency situation and you must use your phone during class time, please leave the classroom before accepting and/or conducting your call. Talking or text messaging during class is not acceptable behavior.

Grading Guidelines and Options

The college has very tight deadlines for auditing, dropping, or withdrawing from a course. For example, during most terms the paperwork to audit a course must be signed and submitted by the end of the first week of the term. Similarly, to receive a refund for a class a drop must be completed the first week of the term. These time frames are even shorter for some summer term courses. In all cases, it is 100% the student’s responsibility to process the change in registration status by the due date and time. Term specific information for these deadlines is available at: http://www.pcc.edu/registration/dropping.html For all work you turn in, you will be graded both on your ability to arrive at the correct solution and on your ability to clearly and concisely present your solution using proper notation and documentation. For the college’s grading guidelines, see www.pcc.edu/resources/academic/standards-practices/AcademicStandardsandPractices-GradingGuidelines.html.
Course Assessment

<table>
<thead>
<tr>
<th>Points</th>
<th>Item</th>
<th>Grade</th>
<th>Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Attendance</td>
<td>A</td>
<td>720-800</td>
</tr>
<tr>
<td>150</td>
<td>Practice Homework</td>
<td>B</td>
<td>640-719</td>
</tr>
<tr>
<td>120</td>
<td>Graded Problem Sets</td>
<td>C</td>
<td>560-639</td>
</tr>
<tr>
<td>300</td>
<td>Exams 1, 2 &amp; 3</td>
<td>D</td>
<td>480-559</td>
</tr>
<tr>
<td>200</td>
<td>Final Exam</td>
<td>F</td>
<td>&lt;480</td>
</tr>
<tr>
<td>800</td>
<td>Total</td>
<td>P</td>
<td>≥560</td>
</tr>
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</table>

Attendance

You are expected to be on time, to attend each class period for the full session, to actively participate and to complete in-class activities. You will receive a score of 0, 1 or 2 for each day of class. Attending and participating for the full class period earns you a score of 2; partially attending class or partially participating in class will earn you a score of 1. Not attending class, disrupting class, using personal electronic devices during class, or minimally attending/participating in class will earn you a score of 0.

Practice Homework

Practice Homework is due the following class period at **12:00 PM**. All homework from the previous class period should be submitted and must have a homework rubric with your preliminary self assessment attached to it. You are responsible for checking your answers to your homework and should correct them if necessary. If you have difficulty with a homework assignment, you can stop by my office hours or go to the Student Learning Center located in the Sylvania Library, Room 140. Assignments submitted between 12:01 PM and 12:30 PM will receive a 25% deduction; after that, homework will not be accepted. If you cannot submit your homework during class, you may drop it off at my office or email or fax it to me. Being able to properly show your supporting work is an essential component of this course and it is very important that you follow the outlined homework guidelines.

Graded Problem Sets

You will periodically have Graded Problem Sets that are handed out in class and due on the date listed on each assignment. Occasionally they will be handed out in class and due at the end of the class period. These are graded assignments with problems similar to your homework. All of them are open-note, open-book, and allow you to use full resources (your instructor, peers, the tutors, etc.). Although you are encouraged to use all resources available to you on these assignments, all work must be your own. Assignments directly copied from a classmate or other resource will not receive credit.
Exams

There will be three midterm exams and a comprehensive final exam. All will be in-class, closed-note, closed-book exams. Part of each exam will be non-calculator and part of each exam will require the use of a graphing calculator. There are NO make-up exams. If an unexpected and/or unavoidable conflict arises, you must contact me before the time of the exam. In this case, you may arrange to take the exam before the scheduled class time. In extreme circumstances, one midterm exam may be replaced by your final exam score. The final exam is on Wednesday, August 14 at 12:00PM.

Lecture Outlines

Lecture outlines will be handed out in class each week. If you do not wish to receive a lecture outline, please let me know so that I make the appropriate number of copies.

Sample Homework Rubric

***You will be given 12 homework rubrics at the beginning of the term. If you need others, they are available on the course webpage.

Name:
Section(s):
Date:

<table>
<thead>
<tr>
<th>Homework</th>
<th>Score</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Completeness</strong></td>
<td><strong>Notation</strong></td>
</tr>
<tr>
<td>5</td>
<td>Problems are checked and corrected if necessary.</td>
</tr>
<tr>
<td>4</td>
<td>Problems are numbered vertically in one or two columns. No ruffled edges.</td>
</tr>
<tr>
<td>3</td>
<td>Steps are shown vertically. Equals signs are lined up and used where appropriate.</td>
</tr>
<tr>
<td>2</td>
<td>Directions are written out. Sections are labeled and in order.</td>
</tr>
<tr>
<td>1</td>
<td>Application problems are answered using a complete sentence. Graphs are done on graph paper using a straightedge and contain appropriate axis labels.</td>
</tr>
<tr>
<td>0</td>
<td>Use $C + N\left(\frac{\xi}{\theta}\right)$</td>
</tr>
</tbody>
</table>
School Closure Policy

In the unlikely event the college is closed on the day of an exam, graded in-class activity, or graded work due date, the exam/activity/work due date will be the following class period unless otherwise informed by the instructor via one of the following: MyPCC email, instructor website, MyCourses message.

Instructional ADA Statement

PCC is committed to supporting all students. If you plan to use academic accommodations for this course, please contact your instructor as soon as possible to discuss your needs. Accommodations are not retroactive; they begin when the instructor receives the Approved Academic Accommodations letter from you (submitted in person for courses on campus; via email for Distance Learning courses). To request academic accommodations for a disability, please contact a disability services counselor on any PCC campus. Office locations, phone numbers, and additional information may be located at www.pcc.edu/resources/disability

Academic Integrity and Code of Student Conduct

As stated in the Student Rights and Responsibilities Handbook, students of Portland Community College are expected to behave as responsible members of the college community and to be honest and ethical in their academic work. Actions constituting violations of academic integrity such as plagiarism, cheating, fabrication, collusion or academic misconduct will be penalized as stated in the Student Rights and Responsibilities Handbook. See www.pcc.edu/about/policy/student-rights/student-rights.pdf#academic-integrity for more details. For the guidelines on the Code of Student Conduct, see www.pcc.edu/about/policy/student-rights/student-rights.pdf#code-of-conduct

PCC’s Policies on Discrimination and Harassment

The College’s goal is to provide an atmosphere that encourages individuals to realize their potential. Therefore, it is against the College’s policy for any manager, supervisor, faculty, staff, or student to engage in harassment or discrimination of any member of the College community based on his/her race, color, religion, national origin, age, sex, marital status, veteran status, height/weight ratio, physical or mental disability, sexual orientation, creed, organizational affiliation, or political affiliation. For more information and/or if you feel these policies have been violated please visit: http://www.pcc.edu/about/affirmative-action/nonharassment.html

Course Evaluations

Near the end of the term, students are encouraged to complete course evaluations by answering online questions about the class and the instructor. You will receive a PCC email notification when the evaluations become available. You are strongly encouraged to complete the evaluations to provide me feedback on the course and my teaching.
Email

Because of federal privacy laws, all email communications related to this class need to be sent from and to your PCC email address. You may access your PCC email via MyPCC. Please visit me during my office hours if you are unfamiliar with MyPCC.

Available Resources at the PCC Sylvania Campus

- **Sylvania Student Learning Center**: Library, Room 140 ☏ 971-722-4540
  - District-wide tutoring information (including hours) can be found at: [http://www.pcc.edu/resources/tutoring/sylvania/](http://www.pcc.edu/resources/tutoring/sylvania/)

- **Sylvania Student Computing Center**: SY Library ☏ 971-722-4325
  - Internet access, mathematics computer programs: [http://www.pcc.edu/resources/tutoring/sylvania/](http://www.pcc.edu/resources/tutoring/sylvania/)
  - Among other services, you have been allocated 100 double-sided pages of free printing for the term. Visit the following address for more information on printing services: [http://www.pcc.edu/resources/printing/](http://www.pcc.edu/resources/printing/)

- **Sylvania Multicultural Center**: CC 202, ☏ 971-722-4112
  - One-on-one help for math courses, drop-in or by appointment: [http://www.pcc.edu/resources/culture/sylvania/](http://www.pcc.edu/resources/culture/sylvania/)

- **(FREE!) Online Tutoring through PCC**
  - [http://www.pcc.edu/resources/tutoring/](http://www.pcc.edu/resources/tutoring/)

- **Sylvania Women’s Resource Center**: CC 273, ☏ 971-722-8101
  - [http://www.pcc.edu/resources/women/sylvania/](http://www.pcc.edu/resources/women/sylvania/)

- **Sylvania Academic Advising**: CC 216, ☏ 971-722-4531
  - [http://www.pcc.edu/resources/advising/](http://www.pcc.edu/resources/advising/)

- **Sylvania Campus Counseling Services**: CC 216, ☏ 971-722-4531
  - [http://www.pcc.edu/resources/counseling/sylvania.html](http://www.pcc.edu/resources/counseling/sylvania.html)
# Course Schedule

The course content and requirements may be adjusted in response to institutional, weather or class situations as needed, with adequate notice to students.

<table>
<thead>
<tr>
<th>Date</th>
<th>Exams</th>
<th>Sections Covered and Practice Homework Assignments</th>
<th>HW Due:</th>
</tr>
</thead>
</table>
| Mon. 6/24  |           | §2.1: 1-12, 19-29 odd, 33, 34, 77, 89-101 odd  
Supplement §2.1: 2  
§2.2: 21, 23, 25, 49-57 odd, 81, 83, 87                                                                 |          |
| Wed. 6/26  |           | Supplement §2.1: 3-6, 10-12  
§8.1: 1-17 odd, 19, 21, 25, 27, 29, 33, 55, 59, 61, 65, 79, 81, 87                                                                 |          |
| Mon. 7/1   |           | §8.2: 9-59 odd  
Supplement §8.2: 1, 2  
Supplement §2.1: 7-9                                                                 |          |
| Wed. 7/3   |           | §3.3: 17-31 odd, 51-57 odd, 97, 99                                                                                   |          |
| Mon. 7/8   | Exam 1    | Covers §2.1, 2.2, 8.1, 8.2  
§3.4: 7, 11, 13-37 odd, 41, 45, 47, 51-69 odd, 83, 85, 105, 111  
Supplement §3.4: 1, 5                                                                 |          |
| Wed. 7/10  |           | §3.5: 9-17 odd, 21, 23, 25, 27, 35, 37, 45, 47, 53-59 odd, 67, 69, 87, 89, 111                                                                 |          |
| Mon. 7/15  |           | §7.1: 1-115 odd  
§7.4: 1-4, 11, 13, 15, 23, 33-45 odd, 53-57 odd, 81, 85  
Supplement §7.4: 1, 3, 4                                                                 |          |
| Wed. 7/17  |           | §7.5: 1, 2, 17, 21, 27, 31, 37, 41, 43, 45, 73, 87, 93, 95, 97, 117, 119, 121                                                                 |          |
| Mon. 7/22  |           | §7.6: 3, 4, 13-22  
§8.3: 9-15 odd, 21, 23, 29-65 odd, 71-83 odd  
Supplement §8.3: 2                                                                 |          |
| Wed. 7/24  | Exam 2    | Covers §3.3, 3.4, 3.5, 7.1, 7.4, 7.5  
§8.4: 13-35 odd, 55-85 odd, 105, 111                                                                 |          |
§6.2: 5-8, 13, 19, 21, 25, 31, 35, 37, 41, 45, 49, 61, 63, 69, 71, 73, 85, 89, 93, 95, 97  
Supplement §6.2: 1                                                                 |          |
| Wed. 7/31  |           | §6.3: 1-6, 9-27 odd (review), 29, 31, 39, 41, 49, 51, 59, 61, 69, 71, 79, 81, 93                                                                 |          |
| Mon. 8/5   |           | §6.4: 1-6, 7-11 odd, 17, 23, 25, 29, 31, 41, 43, 53, 69, 85                                                                 |          |
| Wed. 8/7   | Exam 3    | Covers §8.3, 8.4, 6.1, 6.2, 6.3, 6.4  
§6.5: 9, 11, 19, 21, 29, 31, 39, 47                                                                 |          |
| Mon. 8/12  |           | Final Exam Review                                                                                                       |          |
| Wed. 8/14  | Final Exam| 12:00PM -2:00PM                                                                                                           |          |