

Imperial Valley College Course Syllabus
Intermediate Algebra - Math 091

Basic Course Information

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| Semester | Fall 2016 | Instructor Name | Allyn Leon |
| Course Title & # | Intermediate Algebra, Math 091 | Email | allyn.leon@imperial.edu |
| CRN # | 10097 | Webpages | http://imperial.instructure.com http://www.mathxl.com http://www.interactmath.com |
| Room | 2725 | Office | 2760.2 |
| Class Dates | 08/16/2016 - 12/06/2016 | Office Hours | M/W from 11:30 am - 12:30 pm Tu/Th from 2:00 pm - 3:00 pm |
| Class Days | Tuesday and Thursday | Office Phone # | 760-355-6523 |
| Class Times | 7:30 am to 10:00 am | | |
| Units | 5 | | |

Course Description

A further study of the concepts of algebra. Topics covered include linear and quadratic equations, relations, functions and graphs, systems of equations, logarithms and exponential functions, conic sections, and sequences and series.

Student Learning Outcomes

By the end of this course, you will be able to (1) solve quadratic equations by factoring, completing the square, and quadratic formula, (2) solve equations involving radicals, (3) recognize and graph equations of conic sections, (4) solve three by three linear systems by elimination and/or substitution, and (5) solve an application involving exponential functions. These outcomes will be assessed through selected exercises on exams throughout the semester.

Course Objectives

Through various activities and assessments, students will:

1. Demonstrate an understanding of radical expressions and equations.
2. Demonstrate an ability to solve systems of applications, including systems with three equations and three variables.
3. Demonstrate and understanding of quadratic functions, including graphing and equations.
4. Demonstrate and understanding of functions and relations, including one to one functions.
5. Demonstrate and understanding of logarithmic and exponential functions and their graphs.
6. Classify and graph ellipses, parabolas, and hyperbolas.
7. Demonstrate an understanding of sequences and series and their operations.

Textbooks & Other Resources or Links

1. Textbook: Introductory and Intermediate Algebra, 4E by Blitzer (Custom book), Pearson Publisher. You will have a few options for the textbook.

- a. **Option 1:** Purchase the textbook new (bundled with MathXL).
- b. **Option 2:** You may purchase the book used and buy MathXL access separately.
- c. **Option 3:** You may choose to not buy the physical textbook, and just purchase MathXL access. You will have access to the textbook pages through the homework.
- d. **Option 4:** Just buy the book used without MathXL.

Note: MathXL is **OPTIONAL**.

2. Calculator: A basic calculator, like a TI-30 (costs around \$10) is recommended, or you can go with a graphing calculator, like the TI-83 or TI-84; it really depends on what other math or science classes you plan on taking later on.

3. MathXL: When you register in MathXL, you will be asked to enroll in a course. The Course ID will be provided at a later time in Canvas.

Important Dates

Last day to add the class: **Saturday 08/27/2016**

Last day to withdraw from the class with a "W": **Saturday 11/05/2016**

See the schedule on the last page for important quiz and test dates!

Course Requirements and Instructional Methods

Homework: There will be **exercises** assigned from every section that we cover **FOR PRACTICE ONLY**. You will not turn these in. These homework exercises can be completed out of the textbook, the interactmath.com website, or within the MathXL homework system.

Quizzes: There will be eight (8) quizzes given throughout the semester, to be taken in Canvas. The first quiz will cover the syllabus. Most will cover a few sections and will have 10-20 exercises for you to complete. **There will be no make-up quizzes.**

Tests: There will be seven (7) tests during the semester. Tests 1, 2, 3, 4, 5, & 6 will take place at the end of short clusters of topics. See the schedule below. Test 7 is the final. **There will be no make-up exams.** If you miss any exam, it will be recorded as a zero, and **the final exam percentage** will be used to replace that score at the end of the semester. If you miss the final, it will be recorded as a zero.

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC has adopted a similar requirement.

Course Grading Based on Course Objectives

Your grade will be calculated based on the following items:

| | | |
|---|--------------------|-------------|
| 8 Quizzes @ 25 points each | 200 points | ~20% |
| Test 1, 2, 3, 4, 5, & 6 @ 100 points each | 600 points | ~60% |
| Test 7 (Final) @ 200 points | 200 points | ~20% |
| <i>Total</i> | <i>1000 points</i> | <i>100%</i> |

Your final grade will be based on the following points and percentages:

| | | |
|-------------|------------------|---|
| 90% to 100% | 900-1000 points | A |
| 80% to 89% | 800-899 points | B |
| 70% to 79% | 700-799 points | C |
| 60% to 69% | 600-699 points | D |
| Below 60% | Below 600 points | F |

The **Canvas Gradebook** is where you want to go to check your grades and progress. You can do this at any time to get an idea of how you are doing in the class.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- **Electronic Devices:** Please keep your cell phones on silent and/or vibrate while we're in class.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Water only, please.
- **Disruptive Students:** Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- **Children in the classroom:** Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- **Plagiarism** is to take and present as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to correctly 'cite a source', you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment or using or attempting to use

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materials, or assisting others in using materials, or assisting others in using materials, which are prohibited or inappropriate in the context of the academic assignment in question.

- Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment, (e) use of a commercial term paper service.

Additional Help

- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Learning Services (library). Please speak to the instructor about labs unique to your specific program
- Library Services: There is more to our library than just books. You have access to tutors in the learning center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313 if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a full time mental health counselor. For information see

<http://www.imperial.edu/students/student-health-center/>. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities please refer to the IVC General Catalog available online at

http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to help students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at

<http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>

Tips for Success

1. **Pace yourself, and keep up.** Take a look at the anticipated class schedule of topics, readings, assignments, and tests above. This is a guide to help you keep pace with course materials. Come to class, take notes, and do the homework (whether in MathXL, interactmath, or the textbook).
2. **Watch the videos** that are available for each section that is supposed to be covered. Within MathXL there should be various videos and animations associated with each section that we cover. Watching these should help you learn the material.
3. **Practice.** Start the homework as early as possible during the week. Reading ahead and trying the problems before class will increase your exposure to the material.
4. **Form a study group.** Having a group of people that you discuss and work out problems with is a great way to learn.
5. **Ask questions.** Part of learning anything, including math, is not understanding, and asking questions so that the material makes sense. If something in class does not make sense, ask.

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Anticipated Class Schedule / Calendar

| Week # | Date | Readings & Assignments | Test Dates |
|---------------|-------------|-----------------------------------|------------------------------|
| 1 | 08/16 | Introduction | |
| | 08/18 | Sections 8.1 & 8.2 | |
| 2 | 08/23 | Sections 8.2 & 8.3 | Quiz 0 Due |
| | 08/25 | Section 8.4 | |
| 3 | 08/30 | Review & Test 1 | Test 1 Quiz 1 Due |
| | 09/01 | Sections 9.1 & 9.2 | |
| 4 | 09/06 | Sections 9.2 & 9.3 | |
| | 09/08 | Section 9.4 | |
| 5 | 09/13 | Review & Test 2 | Test 2 Quiz 2 Due |
| | 09/15 | Sections 10.1 & 10.2 | |
| 6 | 09/20 | Sections 10.2 & 10.3 | |
| | 09/22 | Sections 10.4 & 10.5 | |
| 7 | 09/27 | Sections 10.5 & 10.6 | |
| | 09/29 | Section 10.7 | |
| 8 | 10/04 | Review & Test 3 | Test 3 Quiz 3 Due |
| | 10/06 | Sections 11.1 & 11.2 | |
| 9 | 10/11 | Sections 11.3 & 11.4 | |
| | 10/13 | Section 11.5 | |
| 10 | 10/18 | Review & Test 4 | Test 4 Quiz 4 Due |
| | 10/20 | Sections 12.1 & 12.2 | |
| 11 | 10/25 | Sections 12.3 & 12.4 | |
| | 10/27 | Section 12.5 | |
| 12 | 11/01 | Review & Test 5 | Test 5 Quiz 5 Due |
| | 11/03 | Sections 13.1 & 13.2 | |
| 13 | 11/08 | Sections 13.3 & 13.4 | |
| | 11/10 | Section 13.5 | |
| 14 | 11/15 | Review & Test 6 | Test 6 Quiz 6 Due |
| | 11/17 | Sections 14.1 & 14.2 | |
| 15 | 11/22 | Thanksgiving Break | |
| | 11/24 | Thanksgiving Break | |
| 16 | 11/29 | Section 14.3 | |
| | 12/01 | Review for Final | Quiz 7 Due |
| 17 | 12/06 | Test 7/Final Exam | Test 7/Final Exam |