

Basic Course Information

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| Semester: | Spring 2016 | Instructor Name: | Mr. McGowan |
| Course Title & #: | Intermediate Algebra MATH 91 | Email: | richard.mcgowan@imperial.edu |
| CRN #: | 20097 | Webpage (optional): | |
| Classroom: | Room 3211, Building 32 | Office #: | |
| Class Dates: | February 16 – June 10 | Office Hours: | |
| Class Days: | Monday and Wednesday | Office Phone #: | |
| Class Times: | 3:45 PM – 6:15 PM | Emergency Contact: | Ofelia Duarte 760-355-6155 |
| 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, logarithmic and exponential functions, conic sections, and sequences and series.
(Nontransferable, AA/AS degree only)

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being 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. Perform operations on functions algebraically.
5. Solve an application involving exponential functions.

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Demonstrate an understanding of radical expressions and equations.
2. Demonstrate an ability to solve applications, inequalities and absolute value inequalities.
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

Blitzer (2012). *Introductory & Intermediate Algebra for College Students* (4th edition). Pearson. ISBN: 978-1-256-83889-0

Course Requirements and Instructional Methods

We will have both lecture and problem-solving in class. Two of the most important things a student can do are to come to class and to do the homework. Please do not fall behind, and if you are unable to come to class, please obtain the assignment from a class member or e-mail me. Please ask questions in class. Somebody else probably has the same question. Feel free to collaborate on homework. The only thing that is required is that it comes to me in your own handwriting. It will do no good just to copy someone else's, because lack of knowledge will show on the exams. While I do not formally keep role, except for administrative purposes, I will be giving points for class participation (see below). Exams will be one-half of a class period, except for the final, which will be for a full class period.

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

There will be four exams, each counting 100 points; I will drop the lowest score for each student. So the exams will add to 300 points. The comprehensive final will count for 150 points. Homework will count for 150 points total. Class participation, which means mostly attending class, counts for 75 points. The total points add to 675. Letter grades will be given at the middle of the semester and at the end of semester.

There will be no make-up exams given.

Homework is to be handed-in at the beginning of the class for which it is due. Homework that is handed-in at the beginning of the class period after the due date will receive one-half credit for each correct answer. There will be no late homework accepted after that time.

Attendance

While I do not formally require attendance, when students have trouble with a mathematics class, the trouble can often be attributed to poor attendance. Please attend class, not only for the class participation points, but for overall understanding.

- 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:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **Food and Drink** are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- **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.

Online Netiquette

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

Academic Honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the importance of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- **Plagiarism** is taking and presenting 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 "cite a source" correctly, you must ask for help.
- **Cheating** is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

Anyone caught cheating or plagiarizing 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 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) using a commercial term paper service.

Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- **Learning Services.** There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **Library Services.** There is more to our library than just books. You have access to tutors in the [Study Skills 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. Please contact them 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.

- **Student Health Center.** A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6128 in Room 1536 for more information.
- **Mental Health Counseling Services.** Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar

| Date or Week | Activity, Assignment, and/or Topic | Pages/ Due Dates/Tests |
|--------------|---|------------------------|
| 1-3 | Chapter 8: Basics of Functions 8.1 Introduction to Functions 8.2 Graphs of Functions 8.3 The Algebra of Functions 8.4 Composite and Inverse Functions | |

Imperial Valley College Course Syllabus – Intermediate Algebra, MATH 91

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| 3-6 | Chapter 9: Inequalities and Problem Solving 9.1 Linear Inequalities 9.2 Compound Inequalities 9.3 Equations and Inequalities Involving Absolute Value 9.4 Linear Inequalities in Two Variables | Exam after 9.2 |
| 7-9 | Chapter 10: Radicals, Radical Functions, and Rational Exponents 10.1 Radical Expressions and Functions 10.2 Rational Exponents 10.3 Multiplying and Simplifying Radical Expressions 10.4 Adding, Subtracting, and Dividing Radical Expressions 10.5 Multiplying with More Than One Term and Rationalizing Denominators 10.6 Radical Equations | Exam after 10.6 |
| 10-11 | Chapter 11: Quadratic Equations and Functions 11.1 The Square Root Property and Completing the Square Distance and Midpoint Formulas 11.2 The Quadratic Formula 11.3 Quadratic Functions and Their Graphs 11.4 Equations Quadratic in Form 11.5 Polynomial and Rational Inequalities | Exam after 11.5 |
| 12-13 | Chapter 12: Exponential and Logarithmic Functions 12.1 Exponential Functions 12.2 Logarithmic Functions 12.3 Properties of Logarithms 12.4 Exponential and Logarithmic Equations 12.5 Exponential Growth and Decay; Modeling Data | Exam after 12.5 |
| 14-15 | Chapter 13: Conic Sections and Systems of Nonlinear Equations 13.1 The Circle 13.2 The Ellipse 13.3 The Hyperbola 13.4 The Parabola; Identifying Conic Sections 13.5 Systems of Nonlinear Equations in two variables | |
| 16 | Review and Final Exam | Final Exam |

*****Tentative, subject to change without prior notice*****