

### Basic Course Information

Semester	<b>Spring 2015</b>	Instructor's Name	<b>Caroline Bennett</b>
Course Title & #	<b>Math 91: Intermediate Algebra</b>	Instructor's Email	<b>caroline.bennett@imperial.edu</b>
CRN #	<b>20368</b>	Webpage	<b>N/A</b>
Room	<b>Building 2700; Room 2722</b>	Office	<b>2501 (Math Lab)</b>
Class Dates	<b>2/18/15 – 6/12/15</b>	Office Hours	<b>By appointment</b>
Class Days	<b>Monday / Wednesday</b>	Office Phone #	<b>(760) 355 – 6160</b>
Class Times	<b>6:30 – 9:00 pm</b>	Who students should contact if emergency or other absence	<b>(760) 355 – 6155</b>
Units	<b>5.0</b>		<b>(760) 355 – 6201</b>

### 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

1. Solve quadratic equations by factoring, completing the square, and quadratic formula. (ILO2)
2. Solve equations involving radicals. (ILO2)
3. Recognize and graph conic sections from th. (ILO2)
4. Perform operations on functions algebraically. (ILO2)
5. Solve an application involving exponential functions. (ILO2, ILO5)

### Course Objectives

1. Demonstrate an understanding of radical expressions and equations.
2. Demonstrate an ability to solve applications, inequalities and absolute value inequalities.
3. Demonstrate an understanding of quadratic functions, including graphing and equations.
4. Demonstrate an understanding of functions and relations, including one-to-one functions.
5. Demonstrate an 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 Materials

TEXT (recommended): Blitzer, Robert (2012). Introductory and Intermediate Algebra for College Students, 4<sup>th</sup> ed. Pearson. ISBN: 978-0-321729385

CALCULATOR: A scientific calculator is **required**. NO graphing calculators or cell phones on exams.

MATHXL ACCESS CODE: This comes as an insert when you buy a new text. Otherwise, you may purchase an access code online or at the IVC Bookstore. Refer to the MathXL handout that will be provided in class.

## Course Requirements and Instructional Methods

HOMEWORK is done online through MathXL in this class. The textbook also offers practice problems (many of which I can suggest in class), with answers to the odd exercises provided in the back. Although only the online homework is graded and recorded, the text's problems offer an additional source of practice. If math is a difficult subject for you, then more practice is always better. Practice problems from MathXL are intended to help you understand the material and perform better on tests. If you struggle with the material, here are some further tips:

- 1) Form a study group and work homework problems together with classmates. The Math Lab is a good place to study and work together with classmates.
- 2) If there is a particular homework problem you would really like to see in class, ask me before or at the beginning of class. I will try to accommodate requests if there is time; if there is not sufficient time, then we can arrange to meet after or outside of class for help.
- 3) Take advantage of the free tutoring resources on campus (see last page for details).

Homework should always be taken seriously in a math class. Math is a skill that you can become good at by *practicing it*. Coming to class and taking good notes is important, but doing homework is what deepens your understanding and sharpens your skills. Homework also helps you assess your own problem areas. When you struggle with homework problems, it will help you to ask more informed questions during the following class (instead of just saying "I'm lost" or "I can't do this"), so that I or a tutor can better help you.

**NOTE:** Although this course includes online homework, it is not an online class. Students who treat this class as an online class (i.e., skipping lectures and showing up only on test days) will find themselves dropped for excessive absence.

EXAMS AND QUIZZES closely reflect the material covered in class and on the homework. A tentative exam schedule is provided in this syllabus; however, exam dates (with the exception of the final exam) may be subject to change, in accordance with the pace of the class. If an exam date is changed, you will be notified sufficiently in advance, both in class and by email. Quiz dates are listed in the calendar as well.

Quizzes occur every week in which there is not an exam. Quizzes come directly from MathXL homework problems. Students may work in groups of up to 4 during quizzes (not for exams). All group members from each group receive the same quiz score. Quizzes always take place during the last part of class, and may not be taken early (don't even ask!).

**MAKE-UPS:** There are no make-up exams. Do not miss a scheduled exam. Your lowest exam score will be dropped. In other words, only your highest three scores from the four regular exams will be counted toward your final grade. If you miss an exam, then that will be your lowest score.

**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. The Western Association of Schools and Colleges (WASC) has adopted a similar requirement. **Since this is a 5 unit class, this means that you should expect and plan for a minimum of 10 hours to be spent working on algebra *outside of class* each week.**

**NOTEBOOK POINTS:** In order to receive full credit each time you turn in your notebook (on each exam day, excluding the Final Exam), all of the following criteria must be met:

- It should be neat and organized, with all papers attached and sections easy to find.
- It should have this syllabus attached in the front of the notebook.
- After the syllabus, it should contain each of the following sections, separated by dividers/tabs:
  - Section 1: Formulas and definitions pertaining to each chapter
  - Section 2: All worksheets and in-class handouts
  - Section 3: Daily warm-up problems
  - Section 4: Class lecture notes
  - Section 5: All scratch work from doing your MathXL homework

<b>Course Grading Based on Course Objectives</b>
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**EVALUATION:**

In-class activities	70
Notebook (3 x 10 pts. each)	30
MathXL homework	150
Quizzes (10 x 10 pts. each)	100
3 exams × 150 points each	450
Final Exam (cumulative)	+ 200
	1000

**GRADING SCALE**

900 – 1000	A
800 – 899	B
700 – 799	C
600 – 699	D
Below 600	F

**The grade that is earned, according to the point scale above, is the grade that will be received. Grades are not subjective. Grades are not negotiable. All students will be treated equally.**

**NOTE: The final exam in this course is cumulative and mandatory for all students.**

**NOTE: Math 91 has a “common final”, which means every Math 91 student from every section takes exactly the same final exam, which is written by one or more instructors not currently teaching Math 91 that particular semester. This promotes fairness and consistency across all Math 91 sections.**

<b>Attendance</b>
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- 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.

Any in-class activities or worksheets that are missed due to an absence CANNOT be made up. Furthermore, on quizzes and exams you are responsible for all material covered in class, regardless of whether or not you were

here. Therefore, if you do miss class, you should obtain any missed worksheets or other materials from the instructor, and obtain lecture notes from a classmate.

Attendance is crucial to your success in this course. You are expected to attend every class and **remain during the entire class. Leaving class early without prior consent from the instructor counts as an absence, and** costs points.

Although you may be dropped for excessive absences, you should never *assume* the instructor has dropped you if you simply stop showing up. It is your responsibility to ensure that you have dropped through WebSTAR by the deadline (May 16, 2015) to receive a “W” instead of a failing grade.

### Classroom Etiquette

**School is place to act with respect.** Remember that different students have different paces and styles of learning, and that all students have the right to ask questions in class. As a student, you have the right to a safe and comfortable learning environment. You do not have the right to impinge on other students’ learning. Talking or other disruptive classroom behavior WILL affect your grade.

Students who disrupt or interfere with a class may be sent out of the room and required to meet with the Campus Disciplinary Officer before returning to continue with coursework. For further information, refer to the Standards of Student Conduct on pages 41-42 of the 2014-2015 General Catalog.

#### **Class work points:**

- You don’t receive points for attending class or lose points for missing class. However, several in-class activities will be worth points which you can only receive if you are in class that day. Any activities you miss by being absent CANNOT be “made up”.
- Unlike exam points and homework points, **class work points can be both earned and lost.** Points are lost through disrespectful or disruptive behavior such as talking in class, leaving class early, answering cell phones, etc.

#### **Cell phones and other electronic devices:**

- Turn OFF all cell phones and electronic devices before class, and especially during exams.
- Cell phones that are on “vibrate” mode are STILL DISRUPTIVE.
- Leaving the room to answer cell phones that are in “silent” mode is disruptive and unacceptable. Take care of private calls/texting on your own time.
- The use of text messaging or other electronic devices for cheating on tests will be treated with the same seriousness as any other form of cheating (see ACADEMIC HONESTY below). Cell phones may not be used as calculators during exams.

### 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 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

- The consequences of academic dishonesty are severe and may include the possibility of expulsion. For further information, refer to the Standards of Student Conduct on p. 34 and pp. 41-42 of the 2014-2015 General Catalog.

### **Additional Help**

- Blackboard support center: <http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543>
- 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. If you feel you need to be evaluated for educational accommodations, the DSP&S office is located in Building 2100, telephone 760-355-6313.

### **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 fulltime 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](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/>

**Anticipated Class Schedule / Calendar**

(\*With the exception of the Final Exam, these dates are tentative and subject to change with advance notice!)

Week	Monday	Wednesday	Weekly Goals
1	2/16 HOLIDAY: NO CLASS	2/18 FIRST DAY OF CLASS	Welcome, introduction; 8.1 – 8.2
2	2/23	2/25 QUIZ 1	8.3 – 8.4; 9.1 – 9.2
3	3/2	3/4 QUIZ 2	9.2 – 9.4; 10.1
4	3/9	3/11 EXAM 1; notebooks due	10.2; review, exam
5	3/16	3/18 QUIZ 3	10.3 – 10.6
6	3/23	3/25 QUIZ 4	10.6 – 10.7; 11.1 – 11.2
7	3/30	4/1 EXAM 2; notebooks due	11.4; review, exam
8	4/6 SPRING BREAK! 😊	4/8 SPRING BREAK! 😊	Better do at least <u>some</u> studying!
9	4/13	4/15 QUIZ 5	11.4, 11.3, 11.5
10	4/20	4/22 QUIZ 6	11.5, 12.1
11	4/27	4/29 QUIZ 7	12.2 – 12.5
12	5/4	5/6 EXAM 3, notebooks due	12.5; review, exam
13	5/11	5/13 QUIZ 8	13.1 – 13.2
14	5/18	5/20 QUIZ 9	13.3 – 13.5
15	5/25 HOLIDAY: NO CLASS	5/27 EXAM 4	13.5; review, exam
16	6/1	6/3 QUIZ 10	14.1 – 14.3
17	6/8 FINAL EXAM REVIEW	6/10 FINAL EXAM	Review, Final Exam

**IMPORTANT DATES AND DEADLINES:**

- February 28 Last day to withdraw without owing fees and/or be eligible for a refund  
Last day to add a class
- March 1 Last day to withdraw without course appearing on transcripts (without receiving a “W”)
- May 16 Last day to withdraw and receive a “W”
- June 10 Final Exam (comprehensive)

**ON-CAMPUS TUTORING RESOURCES:**

**Math Lab**

Building 2500  
 Mon. – Thurs.: 8 a.m. – 9 p.m.  
 Friday: 8 a.m. – 5 p.m.  
 Saturday: 8 a.m. – 1 p.m.  
 (760) 355 – 6160 (Caroline Bennett)  
 (760) 355 – 6187 (Rosario Marin)

**Study Skills Center**

Located in the Library  
 Mon. – Thurs.: 9 a.m. – 5 p.m.  
 Friday: 9 a.m. – 3 p.m.  
 Saturday: Closed  
 (760) 355 – 6384 (Josue Verduzco)

*“Never regard your study as a duty, but as the enviable opportunity to learn to know the liberating influence of beauty in the realm of the spirit for your own personal joy and to the profit of the community to which your later work belongs.” -- Albert Einstein*