

# Syllabus Math 114.01 Intermediate Algebra, Spring 2017

Math 114.01 Intermediate Algebra

Spring 2017

Section 01    CRN 01254    MTWThF    7:30- am – 8:20 am    MLC260

Instructor:    Greg Stachnick

## Contact Information:

Email:    [StachnickGregory@fhda.edu](mailto:StachnickGregory@fhda.edu)

Phone:    408-857-6421

## Office Hours:

Tuesday    10:00 am – 11:00 am

Wednesday    10:00 am – 11:00 am

Or by appointment

Location: Math and Science Resource Center (S43)

## Course Description:

Application of exponential and logarithmic functions, rational functions, and sequences and series to problems. Emphasis on the development of models of real world applications and interpretation of their characteristics.

**Prerequisite:** Completion of Math 212 with a grade of C, or equivalent, or qualifying score on the Placement Test within the last calendar year.

## Student Learning Outcomes:

1. Evaluate real-world situations and distinguish between and apply exponential logarithmic, rational, and discrete function models appropriately
2. Analyze, interpret, and communicate results of exponential, logarithmic, rational, and discrete models in a logical manner from four points of view – visual, formula, numerical, and written.

## Textbook:



1. Intermediate Algebra for College Students, 7th Edition
2. Author: Blitzer (sold in the De Anza College Bookstore)
3. Textbook ISBN-13: 9780134178943
4. Student Access Code to MyMathLab (MML) (**Required**)
5. A Scientific Calculator is recommended (i.e. TI-30XIIS)

If you already have any edition of Blitzer and a current MML Access Code you don't need to buy anything else. If you buy a used book or rent a book, make sure the MML Access Code on the inside cover has not been scratched off. If you shop other sources, make sure you get 7<sup>th</sup> Edition Blitzer with MML Access Code included.

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The Student Access Code to MyMathLab (MML) includes an eBook. Purchase of the hardcopy textbook is optional. Usually the De Anza Bookstore discounted price for the combined package (hardcopy book and Access Code) is a good deal.

De Anza Bookstore Textbook pricing (verify in case of change):

New combo pack (Text with MML Access Code)	\$128.55
Used combo pack (Verify MML Access Code Valid)	\$ 96.40
New Rental (Verify MML Access Code Valid):	\$ 61.70
Used Rental (Verify MML Access Code Valid)	\$ 49.35

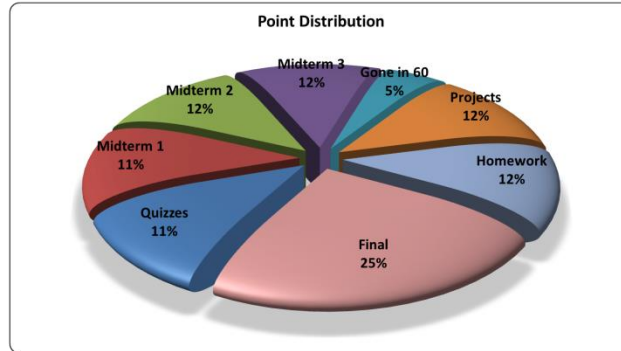
### Grading

- 1. Homework:** Homework will be done in MyMathLab. The MyMathLab Course ID and specific registration instructions will be provided separately. Proficiency in mathematics comes only with frequent practice. Attending classes and completing homework assignments on time is very important in accomplishing this goal.
- 2. Gone in 60 Seconds Daily Quiz:** Starting Wednesday April 12, during the first minute of class students will answer a single question based on previous day's class discussion or homework assignment. **Students are required to bring a blank 3" x 5" card to class to record their answers.** Each question counts as one point. No exceptions for late arrivals. Exceptions are days for which a midterm or Friday quiz is already scheduled.
- 3. Friday Quizzes:** Friday is Quiz Day. There will be a short quiz at the end of class each Friday (see tentative course schedule below) based on the homework assignments and class discussions for the week. Weeks for which a midterm has been scheduled will not have quizzes. If you have done all of the homework, attended class and paid attention, you will be very well prepared. The lowest two quiz grades will be discarded (best five out of seven). No make-ups for quizzes.
- 4. Exams:** There will be three midterms and a cumulative final (see schedule below for dates). If you miss a midterm, you must schedule a make-up within one week.
- 5. Projects:** There will be two required class homework projects.
- 6. Extra Credit Points:** There will be in class opportunities for extra credit, stay tuned and be there.
- 7. Point Distribution**
  - Midterms: 300 Points (100 points each)
  - Quizzes 100 Points (Best 5 out of 7, 20 points each)
  - Gone in 60 Seconds 40 Points
  - Homework 100 Points
  - Projects 100 Points (Two projects, 50 points each)
  - Final 200 Points

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## 8. Letter Grade Breakdown

- A. 100% - 90%
- B. 89% - 80%
- C. 79% - 70%
- D. 69% - 60%
- F. 59% or below



## Additional Resources

**Free Tutoring:** The Math, Science and Technology Resource Center in Room S43 offers free tutoring on Mondays-Thursdays from 9:00 AM-5:30 PM and Fridays 9:00 Am – 12:00 noon. Arrangements for free personal tutors are available and must be set up during the first two weeks of the quarter. More information can be found here: <http://www.deanza.edu/studentsuccess/mstrc/>

**Supplemental Resources:** Search the web for specific class topics. You will find lots of completed problems, additional written and video explanations and some very clever YouTube videos: <http://justmathtutoring.com/page17.html>

## Academic Integrity:

Cheating will not be tolerated and will result in a grade of 0 for the assignment, quiz or exam and referral to the dean for academic discipline. Cheating includes, but is not limited to: copying from other students, permitting other students to copy from you, plagiarism, submitting work that isn't your own, using notes that don't meet permitted specifications, continuing to write/erase on an exam/quiz after permitted time has ended, changing your exam/quiz paper after it's been graded and then requesting a grading correction. For more information about De Anza College's policy on academic integrity see: <https://www.deanza.edu/studenthandbook/academic-integrity.html>

## Student Conduct:

A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. Cell phones must be silenced and stowed away.

## Attendance:

Regular class attendance is expected. Registered students missing any day the first week, without first notifying the instructor will be dropped from the course. After the first week, a student may be dropped from the class if she/he is absent three times, without first notifying

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the instructor. If you miss a quiz because you skipped class you will receive a zero for that assignment. Dropping or withdrawal from the class due to hardship is the students' responsibility. A student who stops coming to class and does not drop will receive an "F" grade. It is the students' responsibility to inform the instructor if she/he is going to be absent and is responsible for any material covered/announcements made on the day of the absence.

### **Communication:**

Course Studio will be used for communication of announcements. It will be important to login to MyPortal at least once daily to check for new course information regarding homework, extra credit assignments, quizzes and examinations. Class lecture notes will also be published on Course Studio. To access Course Studio, login to MyPortal and select the Students tab. Scroll to the bottom of the page and you will see the Course Studio pane on the lower right. Then select the entry for this course to see announcements, reference links and inspect files. A Course Studio Tutorial will be provided separately.

Any student email correspondence with the instructor should include the course number and section number or time (i.e. Math 114.01) in the subject line. I will respond to emails within one business day.

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## Blitzer Chapter and Section Outline

### Chapter 1 – Algebra, Mathematical Models, and Problem Solving

- 1.6 Properties of Exponents
- 1.7 Scientific Notation

### Chapter 4 – Inequalities and Problem Solving

- 4.1 Linear Inequalities
- 4.2 Compound Inequalities
- 4.3 Equations and Inequalities Involving Absolute Value

### Chapter 5 – Polynomials, Polynomial Functions, and Factoring

- 5.5 Factoring Special Forms
- 5.6 A General Factoring Strategy

### Chapter 6 – Rational Expressions, Functions, and Equations

- 6.1 Rational Expressions and Functions Multiplying & Dividing
- 6.2 Adding & Subtracting Rational Expressions
- 6.3 Complex Rational Expressions
- 6.4 Division of Polynomials by a Monomial
- 6.6 Rational Equations
- 6.7 Formulas and Application of Rational Equations
  - Time in Motion Problems
  - Work Problems
- 6.8 Modeling Using Variations

### Chapter 7 – Radicals, Radical Functions, and Rational Exponents

- 7.1 Radical Expressions and Functions
- 7.2 Rational Exponents
- 7.3 Multiplying and Simplifying Radical Expressions
- 7.4 Adding, Subtracting and Dividing Radical Expressions
- 7.5 Rationalizing the Denominator and Multiplying by More Than One Term
- 7.6 Radical Equations

### Chapter 10 – Conic Sections and Systems of Nonlinear Equations

- 10.1 Distance and Midpoint Formulas; Circles

### Chapter 11 – Sequences, Series, and the Binomial Theorem

- 11.1 Sequences and Summation Notation
- 11.2 Arithmetic Sequences
- 11.3 Geometric Sequences and Series

# Syllabus Math 114.01 Intermediate Algebra, Spring 2017

## Tentative Spring 2017 Class Schedule Math 114.01 Beginning Algebra

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Week 1</b> April	<b>10</b> Introductions 1.6	<b>11</b> 1.6 – 1.7	<b>12</b> 4.1-4.2	<b>13</b> 4.3	<b>14</b> 5.5 <b>Quiz 1</b>
<b>Week 2</b> April	<b>17</b> 5.5-5.6	<b>18</b> 5.6	<b>19</b> 5.7	<b>20</b> 6.1	<b>21</b> 6.1 <b>Quiz 2 (1)</b>
<b>Week 3</b> April	<b>24</b> 6.2	<b>25</b> 6.2	<b>26</b> 6.3	<b>27</b> 6.4, 6.6	<b>28</b> 6.6 <b>Quiz 3</b>
<b>Week 4</b> May	<b>1</b> 6.7	<b>2</b> 6.7	<b>3</b> 6.8	<b>4</b> Review	<b>5</b> <b>Midterm 1 (2)</b>
<b>Week 5</b> May	<b>8</b> 7.1	<b>9</b> 7.2	<b>10</b> 7.3	<b>11</b> 7.3	<b>12</b> 7.4 <b>Quiz 4</b>
<b>Week 6</b> May	<b>15</b> 7.4	<b>16</b> 7.4	<b>17</b> 7.5	<b>18</b> 7.6	<b>19</b> 7.6 <b>Quiz 5</b>
<b>Week 7</b> May	<b>22</b> Review	<b>23</b> <b>Midterm 2</b>	<b>24</b> 9.1	<b>25</b> 9.1	<b>26</b> 9.2
<b>Week 8</b> May/June	<b>29</b> <b>Memorial Day Holiday</b>	<b>30</b> 9.3	<b>31</b> 9.3	<b>1</b> 9.4	<b>2</b> 9.4 <b>Quiz 6 (3)</b>
<b>Week 9</b> June	<b>5</b> 9.5	<b>6</b> 9.5	<b>7</b> 9.6	<b>8</b> 9.6	<b>9</b> Review <b>Quiz 7</b>
<b>Week 10</b> June	<b>12</b> <b>Midterm 3</b>	<b>13</b> 10.1	<b>14</b> 11.1	<b>15</b> 11.1	<b>16</b> 11.2
<b>Week 11</b> June	<b>19</b> 11.2	<b>20</b> 11.3	<b>21</b> 11.3	<b>22</b> Final Review	<b>23</b> Final Review
<b>Week 12</b> June	<b>26</b> <b>Final Exam 7:00–9:00 am (4)</b>	<b>27</b>	<b>28</b> <b>Final Exam Week</b>	<b>29</b>	<b>30</b>

(1) Sunday April 23: Last day to drop

(2) Friday May 5: Last day to request pass/no pass

(3) Fri June 2: Last day to drop with a W (withdraw) (4) Mon June 26 Final Exam 7:00-9:00 am

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### Important Dates

**Reminder:** [Payment in full](#) is required at the time of registration and when adding subsequent classes. You may sign up for an [installment payment plan](#) via your MyPortal account.

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**TBD :** [Drop for nonpayment](#) on cumulative fee balances of \$100 or more will occur.

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**Monday, April 10 :** First day of Spring Quarter 2017

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**Saturday, April 22 ::** Last day to [add](#) quarter-length classes. *Add date is enforced.*

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**Sunday, April 23 :** Last day to [drop](#) for a full [refund or credit](#) for all students (quarter-length classes only). Refund deadlines for all non quarter-length classes are in MyPortal, "View Your Class Schedule" link. *Drop date is enforced.*

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**Sunday, April 23:** Last day to [drop](#) a class with no record of grade. *Drop date is enforced.*

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**Friday, May 5 :** Last day to [request pass/no pass](#) grade. *Request date is enforced.*

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**Friday, June 2:** Last day to [drop](#) with a "W." *Withdraw date is enforced.*

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**Saturday - Monday, May 27-29 :** Memorial Day Weekend (no classes)

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**Monday - Friday, June 26-30 :** [Spring Final Exams](#)

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**Thursday, June 1 :** Last day to [file for a spring degree or certificate](#)

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**Friday, June 30 :** [Commencement Ceremony](#)

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