

Math 155 Intermediate Algebra Section 5175
Spring 2018 Santa Rosa Junior College

Instructor: **Bic Ha DoVan** bdovan@santarosa.edu

Days & Times & Location: **Monday/Tuesday/Wednesday/Thursday 12:00 – 1:00 pm / 1727 Shuhaw**

Office & Phone: **1746 Shuhaw / 707-778-3663** (Email is better!)

Office Hours: **Monday 10:30 – 11:30 am**

Tuesday 10:30 – 11:30 am

Wednesday 10:30 – 11:30 am AND 2:00 – 3:00 pm

Thursday 10:30 – 11:30 am

OR by appointment if needed.

Prerequisite: Qualifying Placement or Grade C or higher in Math 151 or Math 150B or higher.

Required Textbook: *Intermediate Algebra for College Students, 6th Edition* by Robert Blitzer.

There is a textbook on reserve at the Mahoney and Doyle Libraries. Call Number: **QA 154.3.B584 2013**

Required Online Software: MyMathLab is used for online Homework Assignments.

If you already have an access code for this textbook, register at <http://pearsonmylab.com/> for online Homework.

Please bookmark this page. The course code is **dovan75627**. If you can study using only an e-book, then you may buy the access code alone and do not need to purchase a hard copy of the textbook.

Calculators: Texas Instruments Graphing calculators: TI 83, 83+, 84, 84+, 89 (or equivalent) is required.

Course Description: This course is an intermediate algebra course that incorporates the use of technology. The topics in this course include functions, equations and inequalities in one variable, systems of linear equations in two or three variables, exponential and logarithmic functions and equations, and discrete topics. Graphing calculators will be incorporated into the above, as appropriate.

Student Learning Outcomes: Here is the link for Math 155 course outline at SRJC.

http://busapp02.santarosa.edu/SRweb/SR_CourseOutlines.aspx?CVID=25632&Semester=20157

Admissions and Records Deadlines: I will adhere to ALL registration deadlines published by SRJC. For full term classes in the Spring 2018 semester the deadlines are:

- Last day to drop semester length class and be eligible for a refundJan. 28, 2018
- Last day to drop a class **without** a “W” symbol Feb. 4, 2018
- Last day to opt for Pass/ Not PassFeb. 25, 2018
- Last day to drop a class **with** a “W” symbolApril 22, 2018

For the full SRJC Academic Calendar, use the link

<https://admissions.santarosa.edu/academic-calendar#spring2018>

Communication: Please check your SRJC email and MyMathLab daily for any announcements, handouts or assignments. If you email me Monday – Friday between 8:00 am – 5:00 pm, I am able to respond within 24 hours. Please include your full name and the class.

Attendance: It is very important that you attend every class. However, if you do miss a class you are responsible for all announcements and material covered in your absence. SRJC’s attendance requirements can be found at the link:

<https://de.santarosa.edu/sites/de.santarosa.edu/files/8.1.5P.pdf>

Your grade will be based on the standard scale:

A: 90-100% B: 80-89% C: 70-79% D: 60-69% F: 0-59%

Grading:	Homework (MyMathLab)	12 %
	Quizzes (Best 4)	8 %
	Exams (4 @ 15% each)	60 %
	<u>Final Exam</u>	<u>20 %</u>
	Total	100 %

Online Homework: You need an access code for MyMathLab to do online homework. Please bookmark the website: <https://www.pearsonmylabandmastering.com/northamerica/> The course code is **dovan75627**.

- Begin your homework after each class lecture.
- Although the assignment is online, please do your work neatly and orderly and NOT as scratch paper.
- All online Homework Assignments are due according to the MyMathLab due dates. Please check the website regularly for updates.
- You may rework the problems up to three times, but only up until the MyMathLab due date. Online Homework that is past due may earn partial credit up to 10 days.

Quizzes: Quiz problems will be similar to the homework problems. **No make-up quizzes** will be given, even if you have an excused absence. Only your **top 4 quizzes** will count towards your course grade, so your lowest quiz will be dropped. No graphing calculators are allowed on in-class quizzes. A scientific calculator is OK.

Exams: There will be **four in-class exams**. You must show your work and use proper mathematical notation to receive full credit. A correct answer without supporting work will receive 0 points. **There are no make-up exams.** If you have a homework score of 70% or higher for the semester, I will replace your lowest exam score with the final exam score if it improves your grade. Parts of the exams do not allow for a graphing calculator.

Final Exam: The Final Exam is comprehensive and given at **10:00 – 12:45 pm on Wednesday, May 23, 2018**. Please plan accordingly. I will not give any final exams before finals' week.

Academic Integrity: <https://studentlife.santarosa.edu/academic-integrity>

Exams, Quizzes and the Final Exam must be done by the student alone.

Any student and all those involved who violate this rule will receive a zero on the Quiz, Exam or Final Exam.

A second offense may result in failing the course.

Resources: If you are struggling with the material in class, please come see me right away! Aside from my office hours, you have the following free services available on campus:

- Computer and Mathematics Labs in Shuhaw Hall, Rooms 1733 & 1735
- Santa Rosa Campus's Tutorial Center on the first floor of Doyle library
- Petaluma Campus's Tutorial Center in Kathleen Doyle Hall, 2nd Floor, Room 247.

Class Conduct: You are expected to act with respect and in a courteous manner toward me and your classmates. Please turn off your cell-phones before the class begins and have it off your desk.

DO NOT TEXT DURING CLASS, or you may be asked to leave the classroom. If your cell-phone or pagers goes off during class, you are requested to bring cookies/goodies at the next class meeting to share with your classmates. If you use a laptop for note-taking accommodations, please sit in the front row with the sound off. You are expected to adhere to the Student Conduct Code in this class. Student Conduct Code:

<https://student-conduct.santarosa.edu/student-conduct-and-discipline-due-process>

Before each class, please read your previous notes and the new section(s) to be covered.

Tentative Schedule

Date	Section	Topic
Jan. 15	No Classes	Happy Birthday Martin Luther King!
Jan. 16	No Classes	College FLEX Day
Jan. 17	Introduction	Introduction and Syllabus; Assessment and Review Chapter 1 Work Sheet
Jan. 18	2.1	Functions.
Jan. 22	2.2	Graphs of Functions. <i>Calculator Work</i>
Jan. 23	2.3	The Algebra of Functions.
Jan. 24	2.4	Linear Functions & Slope.
Jan. 25	2.5	The Point-Slope Form of an Equation of a Line. Quiz 1
Jan. 29	3.1	Systems of Linear Equations in Two Variables.
Jan. 30	3.2	Problem Solving and Business Applications.
Jan. 31	4.1	Solving Linear Inequalities.
Feb. 1	4.2	Compound Inequalities. Quiz 2
Feb. 5	4.3	Equations and Inequalities involving Absolute -Value.
Feb. 6	4.4	Linear Inequalities in Two Variables.
Feb. 7	Catch Up	Review Exam 1
Feb. 8	Exam 1, Part 1	Exam 1, Part 1; NO Graphing Calculator (Covers Chapters 2 & 4, Sect 3.1, 3.2)
Feb. 12	Exam 1, Part 2	Exam 1, Part 2; Graphing Calculator OK (Covers Chapters 2 & 4, Sect 3.1, 3.2)
Feb. 13	5.1	Polynomials.
Feb. 14	5.2	Multiplication of Polynomials.
Feb. 15	No Classes	College PDA Day
Feb. 19	No Classes	Happy Birthday Presidents!
Feb. 20	5.3	Greatest Common Factor, Factor by Grouping;
Feb. 21	5.4	Factoring Trinomials.
Feb. 22	5.5	Factoring Special Forms.
Feb. 26	5.6	General Factoring Strategy. Quiz 3
Feb. 27	5.7	Polynomial Equations and their Applications.
Feb. 28	3.3	Systems of Linear Equations in Three Variables.
March 1	3.3, 3.4	Finish 3x3 Systems of Linear Equations; Matrix Solutions to Linear Systems.
March 5	3.4	Finish Matrix Solutions to Linear Systems. <i>Calculator Work</i>
March 6	6.1	Rational Expressions & Functions, Multiplying & Dividing.
March 7	6.2	Adding & Subtracting Rational Expressions.
March 8	6.3	Complex Rational Expressions.
Mar. 12	6.4	Polynomial Long Division.
Mar. 13	Catch Up	Review Exam 2
Mar. 14	Exam 2, Part 1	Exam 2, Part 1; NO Graphing Calculator (Covers Chapter 5, Sect 3.3, 3.4, 6.1 -6.4)
Mar. 15	Exam 2, Part 2	Exam 2, Part 2; Graphing Calculator OK (Covers Chapter 5, Sect 3.3, 3.4, 6.1 - 6.4)

Before each class, please read your previous notes and the new section(s) to be covered.

Continued Tentative Schedule

Date	Sections	Topic
Mar. 19 – Mar. 22	No Classes	Have a great Spring Break!
Mar. 26	6.6	Rational Equations.
Mar. 27	6.7	Formulas and Applications of Rational Equations.
Mar. 28	6.8	Modeling Using Variation. <i>Calculator Work</i>
Mar. 29	7.1	Radical Expressions and Functions.
April 2	7.2	Rational Exponents.
April 3	7.3	Multiplying and Simplifying Radical Expressions.
April 4	7.4	Adding, Subtracting, & Dividing Radical Expressions.
April 5	7.5	Multiplying more terms & Rationalizing the Denominator. Quiz 4
April 9	7.5, 7.6	Finish Rationalizing the Denominator; Radical Equations.
April 10	8.1	The Square Root Property & Completing the Square.
April 11	8.2, 8.2	Finish Completing the Square; The Quadratic Formula.
April 12	Catch Up	Review Exam 3
April 16	Exam 3, Part 1	Exam 3, Part 1; NO Graphing Calc. (Covers Sect. 6.6 – 6.8, 8.1, 8.2, Chapter 7)
April 17	Exam 3, Part 2	Exam 3, Part 2; Graphing Calc. OK (Covers Sect. 6.6 – 6.8, 8.1, 8.2, Chapter 7)
April 18	8.3	Quadratic Functions and their Graphs. <i>Calculator Work</i>
April 19	8.4	Equations Quadratic in Form.
April 23	8.5, 9.1	Polynomial & Rational Inequalities; Exponential Functions.
April 24	9.1, 9.2	Finish Exponential Functions; Composite Functions & Intro to Inverse Functions.
April 25	9.3	Logarithmic Functions.
April 26	9.3, 9.4	Finish Logarithmic Functions; Properties of Logarithms.
April 30	9.4	Finish Properties of Logarithms. Quiz 5
May 1	9.5	Exponential and Logarithmic Equations.
May 2	9.5, 10.1	Finish Logarithmic Equations; Distance and Midpoint Formulas, Circles.
May 3	10.1	Finish Distance and Midpoint Formulas, Circles.
May 7	Catch Up	Review Exam 4
May 8	Exam 4, Part 1	Exam 4, Part 1; NO Graphing Calculator (Covers Sect. 8.3, 8.4, 10.1, Chapter 9)
May 9	Exam 4, Part 2	Exam 4, Part 2; Graphing Calculator OK (Covers Sect. 8.3, 8.4, 10.1, Chapter 9)
May 10	11.1	Sequences and Summation Notation.
May 14	11.1, 11.4	Finish Sequences and Summation Notation; The Binomial Theorem.
May 15	11.4	Finish The Binomial Theorem.
May 16	Catch Up	Review Comprehensive Final Exam.
May 17	Review	More Review Comprehensive Final Exam.
May 21-22	No Classes	Finals' Week
Wed. May 23	Final Exam	Comprehensive Final Exam **10:00 AM – 12:45 PM** EARLIER TIME!!

This tentative schedule may be modified when necessary to accommodate changes in scheduling and pace of class.