

**DEPARTMENT OF MATHEMATICS  
MAT 0024 - BASIC ALGEBRA**

Fall 2011

<b>Instructor:</b>	<b>Bradenton campus</b> <b>Math Office: 27108</b>	<b>Venice campus</b> <b>613</b>
<b>Instructor's Office:</b>	<b>Math Office phone: 752-5224</b>	<b>408-1476</b>
<b>Instructor's Phone:</b>	<b>Math Lab: ARC (Building 5)</b>	<b>Building 400</b>
<b>Instructor's e-mail:</b>	<b>Math Lab Hrs:</b>	

Office hours\*: \*Adjuncts available prior to class or after class or specific times available by appointment.

**COURSE DESCRIPTION:** This course includes basic algebra concepts and skills needed for success in higher level courses. Topics include real numbers, exponents, polynomials, rational expressions, graphing, radicals, graphing linear equations, factoring and solving linear and quadratic equations and applications. Course performance standards are available at [www.scf.edu/pages/1160.asp](http://www.scf.edu/pages/1160.asp) and in the Math Labs.

**PREREQUISITES:** A grade of "C" or better in MAT 0012 or equivalent. Student enrollment in any mathematics course is contingent upon approval of the Mathematics Department. This means that students who have been misplaced may have their schedule changed.

**LAB REQUIREMENT:** As part of this course, you are required to register for **MAT 0024L**. In order to successfully complete the lab requirement, you must do the following:

1. You must attend the required meetings with your lab instructor at the time and location designated in your schedule for MAT 0024L to work on MyMathLab Assignments.
2. You must spend the appropriate time working on your open lab hour assignment as directed by your instructor. (Your participation in both components of the lab requirement will be monitored and count towards your final grade.)

**TEXT:** *Introductory Algebra* by Elayn Martin-Gay, 4th Edition. Students must be enrolled in the Instructional Software (MyMathLab) by the end of the first week.

**MATERIALS:** A *scientific* calculator is required. It is allowed during chapter tests and quizzes as directed by your instructor. Calculators with symbolic manipulation capabilities (e.g., TI-89, TI-92) will not be allowed for use during exams.

**EXAMINATIONS:** There will be five chapter tests and a required comprehensive Florida College Basic Skills Exit Exam. **NO MAKE-UP TESTS or EXAMS WILL BE GIVEN. CALCULATORS WILL NOT BE ALLOWED ON THE FLORIDA COLLEGE BASIC SKILLS EXIT EXAM.**

**GRADING:** *In order to pass the course, a grade of 70% or better must be earned on the Florida College Basic Skills Exit Exam and an overall 75% average of the total points.*

	<b>POINTS</b>	<b>SCALE</b>
5 Chapter Exams	500	<b>94 - 100% = A</b>
Assigned Math Lab	150	<b>85 - 93% = B</b>
Open Math Lab	75	<b>75 - 84% = C</b>
Quizzes//Projects/Homework*	200	<b>65 - 74% = D</b>
Florida College Basic Skills Exit Exam	200	<b>0 - 64% = F</b>

\*Instructor will choose composition of the points.

**ATTENDANCE:** All late arrivals, early departures and absences must be discussed and cleared with the instructor. More than 3 hours of unexcused absences or excessive tardiness may result in your withdrawal from the course.

**WITHDRAWAL:** In accordance with the State College of Florida policy, as stated in the college catalog, students may withdraw from any course, or all courses, without academic penalty, by the withdrawal deadline listed in the State College of Florida academic calendar. This semester, the withdrawal date is **October 27, 2011**. Students should take responsibility to initiate the withdrawal procedure but are strongly encouraged to talk with their instructors before taking any withdrawal action. In addition, students should note that faculty may also withdraw students for violating policies, procedures or conditions of the class, as outlined in individual class syllabi, and such action could affect financial aid eligibility.

**ELECTRONICS POLICY:** Cell phone etiquette must be observed: In-class usage is restricted to emergency situations. Cell phones are **not** allowed to be used during tests, not even as a calculator. Inform the instructor before class of any extenuating circumstances. Electronic devices, such as iPods, Blackberries, etc. are **not** permitted to be used or worn in class.

**MISCONDUCT:** Students are required to adhere to statements regarding student misconduct outlined in official State College of Florida publications including the Catalog and the Student Handbook. The minimal consequence of failure to adhere to these statements is withdrawal from the course.

**Tentative Academic Calendar Fall 2011**

**Course: MAT0024**

<b>Week</b>	<b>Sections Covered</b>	<b>Topics Covered</b>	<b>Suggested Homework Assignments</b>
<b>1</b> M 8/22 – F 8/26	Pretest, 1.3 2.3 2.4	Exponents, Order of Operations Further Solving Linear Equations Introduction to Problem Solving	P 27 # 1-93 every other odd (eoo) P 118 # 1-63 eoo P 131 # 1-45 eoo
<b>2</b> M 8/29 – F 9/2	2.5 2.6 2.7	Formulas and Problem Solving Percent and Mixture Problems Solving Linear Inequalities	P 146 # 1-61 eoo P 158 # 1-49 eoo P 170 # 1-53 eoo
<b>3</b> *M 9/5 – F 9/9 <i>*Labor Day Holiday</i>	<b>Test 1</b> 3.1	Exponents	P 197 # 1-105 eoo
<b>4</b> M 9/12 – F 9/16	3.2 3.3 3.4	Negative Exponents /Scientific Notation Introduction to polynomials Add/Subtract Polynomials	P 207 # 1-77 eoo P 217 # 1-65 eoo P 225 # 1-65 eoo
<b>5</b> M 9/19 – F 9/23	3.5 3.6 3.7	Multiplying Polynomials Special Products Divide by Monomial	P 232 # 1-73 eoo P 241 # 1-81 eoo P 250 # 1-11 odds
<b>6</b> M 9/26 – F 9/30	<b>Test 2</b> 4.1 4.2	Factoring: GCF & Grouping Factoring Trinomials a = 1	P 274 # 1-75 eoo P 282 # 1-65 eoo
<b>7</b> M 10/3 – **F 10/7 <i>**Faculty/Staff Dev Day</i>	4.3 4.4	Factoring trinomials (trial and error) Factoring Trinomials (AC method)	P 289 # 1-75 eoo P 294 # 1-45 eoo
<b>8</b> M 10/10 - F 10/14	4.5 4.6 <b>Test 3</b>	Difference of Squares, Perfect Squares Solving Equations by Factoring	P 301 # 1- 69 eoo P 312 # 1-41 eoo
<b>9</b> M 10/17 – F 10/21	5.1 5.2 5.3	Simplifying Rational Expressions Multiplying and Dividing Rational Expressions Add and Subtract Like Rational Expressions	P 344 # 1-53 eoo P 354 # 1- 45 eoo P 362 # 1-33
<b>10</b> M 10/24– F 10/28* <i>* last day to withdraw without academic penalty (no refund)</i>	5.4 5.5 5.6	Add and Subtract Different Denominators Solving Equations with Rational Expressions Proportions	P 370 # 1-37 eoo P 378 # 1 – 37 eoo P 391 # 1- 45 eoo
<b>11</b> M 10/31– F 11/4	<b>Test 4</b> 6.1 6.2	Rectangular Coordinate System Graphing Linear Equations	P 431 # 17 – 31 odds P 444 # 1- 29 odds
<b>12</b> M 11/7 – F 11/11 <i>* F 11/11 - Veteran's Day</i>	6.3 6.4	Intercepts Slope and Rate of Change	P 454 # 1 – 41 odds P 469 # 1-35 odds
<b>13</b> M 11/14– F 11/18	6.5 8.1 8.2	Equations of Lines Introduction to Radicals Simplifying Radicals	P 482 # 1- 37 odds P 597 # 1-19, 43-47, 51-61 odds P 605 # 1- 45 odds
<b>14</b> M 11/21– F 11/25 <i>*W, R, F 11/23-11/25 *Thanksgiving Holidays</i>	8.3	Adding and Subtracting Radicals	P 611 # 1-49 odds
<b>15</b> M 11/28 – F 12/2	8.4 8.6 <b>Test 5</b>	Multiplying and Dividing Radicals Radical Equations and Problem Solving	P 619 # 1- 71odds P 633 # 1-17 odds
<b>16</b> M 12/5 – *F 12/9 <i>*F 12/9 – Classes End.</i>	Review for Exit Exam this week		
M 12/12 – R 12/15	<b>Final Exams</b>		
	<i>Note: The Final Exam Schedule can be viewed at: <a href="http://www.scf.edu/pages/153.asp">www.scf.edu/pages/153.asp</a></i>		
F 12/16	<b>Final Grades Due 2:00 p.m.</b>		

**\*\*Friday, 10/7, Faculty/Staff Development Day** – no day classes or academic support labs. Classes scheduled 4 pm and later will meet as usual.

**\*Thursday, 10/27, last day to withdraw without academic penalty (no refund).**

**MAT 0024L – Basic Algebra Lab**

**Meets in the Academic Resource Center (ARC)**

Lab Facilitator: \_\_\_\_\_ Lab meeting time: \_\_\_\_\_

Open lab hours: \_\_\_\_\_

Lab is a required activity that is designed to assist students in learning the material presented in class. The lab consists of two hours per week, **one hour in a facilitated lab** and **one hour of open lab**.

In the facilitated lab, students will complete problems assigned in the online learning environment MyMathLab. Students will complete the problems in their notebooks, showing all work to support their answer, then enter the answers into MyMathLab. The lab facilitator will assist students and record their progress. On meetings that occur before tests are given in the course, practice tests with solutions will also be available.

In the open lab hour, students are expected to work on their open lab hour assignment. In the ARC, computers are available for MyMathLab use and tutors are available to assist with both the open hour lab assignment and the homework.

The student will:

- effectively use online tools to reinforce the course instructor’s lecture;
- enter answers into MyMathLab using the on-screen palette and/or keyboard shortcuts;
- use proper mathematical notation, give answers in simplest form, and check answers;
- proactively seek help from the lab facilitators and/or from the resources in MyMathLab;
- keep an organized notebook with notes, homework, lab work, and graded assessments.

Materials:

Students will bring their notebook, calculator, pencil, and adequate paper for problem solving.

Grading:

Students will be graded based on the work completed in their notebooks on their MyMathLab assignments (10 points per week) and on the open lab work assigned by their course instructor and completed in the open lab hour (5 points per week). Points will be deducted for disruptive behavior or lack of participation. Points earned in lab constitute 20% of the overall course grade.

Attendance:

Facilitated lab attendance is required. An absence will result in a zero for the week. Late arrivals or early departures must be discussed and cleared with the lab facilitator. At the discretion of the lab facilitator, an absence may be made up by attending another facilitated lab session that meets before the student’s next regularly scheduled meeting.

Misconduct:

Students are required to adhere to statements regarding student misconduct outlined in official State College of Florida publications including the Catalog and the Student Handbook. The minimal consequence of failure to adhere to these statements is withdrawal from the course.