**Course Syllabus**

**MAT 0028C Developmental Math II**

**Valencia College**

**Instructor:** Frank Wargo **E-mail:** [fwargo@valenciacollege.edu](mailto:fwargo@valenciacollege.edu) **Office Hours:** by appointment

**Semester: Year: Withdrawal Deadline:**

**Course Description:**

**MAT 0028C, Developmental Math II** **credit hours 3(3,1)**

Prerequisite: Grade of “C” or better in MAT0018C or an appropriate score on your entry placement test. Topics include sets, fundamental operations with polynomials, linear equations and inequalities with applications, factoring and its use in algebra, introduction to graphing of linear equations, introduction to radicals, and use of calculators. Applications emphasizing connections with other disciplines and with the real world will be included. **A minimum grade of “C” is required for successful completion.** This course does not apply toward mathematics requirements in general education or toward an associate degree at Valencia. (Lab fee)

MAT 0028C is the second of two introductory math courses which continues the development of algebraic concepts and skills in preparation for college level algebra. You will continue to develop a mathematics vocabulary and will use it in oral and written communication. You will also become an effective problem solver using reasoning, algebraic techniques, graphical techniques, and technology. You will develop effective study habits which will enable you to comply with the above and be competent in future math endeavors.

In addition to the 2.5 hours you will spend each week in class, you will spend 50 min. each week in a math lab. During that time you will take a test or work on mathematics activities that will reinforce and expand on the material that you have in your textbook. You may work with math manipulatives to better understand a concept, collect measurements to work a problem, or complete a worksheet that provides a different way to review a topic.

**College Prep Math Competencies Final/Exit Exam (competency test):**

The State of Florida and Valencia Community College desire students exiting college prep mathematics to possess and demonstrate certain competencies. To successfully complete this course you must demonstrate the following competencies on an examination administered at the end of the course.

\* Simplify numeric expressions \* Simplify exponential expressions

\* Simplify Algebraic expressions \* Perform arithmetic operations on polynomials

\* Simplify square roots of monomials \* Solve linear equations

\* Solve linear inequalities \* Graph and interpret linear equations

\* Set up and solve word problems \* Factor Polynomials

\* Simplify algebraic fractions \* Solve quadratic equations

To receive a course grade of “C” or better you must perform all other required assignments in a satisfactory manner. (See evaluation)

**Competencies of a Valencia graduate:**

1. *Think clearly* and *critically* and make *reasoned choices* by acquiring, analyzing, synthesizing, and evaluating knowledge and data. (Consider your own and others *values* from a global perspective.)
2. *Communicate* clearly by reading, listening, speaking and writing effectively.
3. *Act* purposefully, reflectively, and responsibly by implementing skills from #1 and #2 above.
4. *Understand* and *use* quantitative information.

**Required Materials:**

Textbook: MAT0028C Developmental Math II, Al Groccia, 2012

Lab Manual: Valencia College Beginning Algebra Lab Manual (supplied in lab).

**Support Materials:**

Internet: On-line homework, videos, and module quizzes in IMathAS.

Tutoring: Tutoring is available at the SPA in the Learning Center (Bldg. 4–1stfloor).

**Class Goals / Objectives:**

1) Every student will learn, comprehend, and work effectively with the content of this course.

2) Every student will develop good mathematical study habits.

3) Every student will develop beginning math skills necessary to proceed through Valencia's math curricula and other related classes.

4) Every student will begin to develop math skills necessary to do well on standardized testing such as the CPT, SAT, and ACT.

**Student Approach:**

The only way to really learn mathematics is to: 1) do all the homework, 2) think about what you are doing, and 3) ask questions when you don't understand. In other words: 1) Work a lot of problems. 2) Ask yourself, what's going on here / why is this so? 3) Talk with others about the math questions you have to help you (and them) understand.

**Time:**

This course will require about ten hours of work per week outside of class; but, some students will require much more. Please assure that you have the time to do the work. It will be well worth it.

**Academic Honesty:**

All students are expected to be in compliance with Valencia Community College's policy on academic honesty as set forth in the admissions catalog and the student handbook. Providing information to another or receiving information concerning exam / test quiz content is considered cheating and will not be tolerated. Should a student be found to be cheating, the instructor reserves the right to determine the appropriate penalties according to Valencia's policies which, in most cases, will result in at least an “F” for the course.

**Note:** Copying another's homework is cheating.

**Class Policies:**

Attendance:

Students are expected to attend every class and lab, be punctual, and remain in class for the entire class time. Attendance will be recorded. If it is determined that you have missed too many classes, you may be withdrawn from the class. “Too many” is more than six class and/or lab periods. Classes will always be in session for the entire time allotted.

Lab Activities:

You must attend your lab class each week. (Math Dept. Policy) During this time you will take a test or you will work on activities that support the math concepts you have studied in class. Your lab grade will be based on attendance. After one absence, 12 points will be deducted from your overall point total for each absence. (See Evaluation)

Class Participation:

Students are encouraged to participate actively and ask pertinent questions during class.

Cell phones, smart phones / pads, etc.

All electronic equipment is to be turned off and put away while class is in session.

Homework/Modules and Notebooks:

Homework and learning modules are located online (http://imathas.valenciacollege.edu). The seven learning modules are designed as preparation for the final exam**.** There are about 20 homework problems (plus videos, etc.) for each book section in IMathAS; you are to do all of them for every section. **Show all work for the modules and homework on paper and organize it in a notebook. Notebooks should be a 3 - ring binder and organized in sections with class notes, labs, tests/quizzes, homework problems, and module problems.** (Note: Do not use spiral wound paper with the little pieces of paper hanging on the sides.) Homework will count as part of your overall course grade. (See evaluation.)

Calculators:

Calculators will be used only sparingly in this course. If you do not know the addition, subtraction, multiplication, and division tables, you had better learn/relearn them quickly. Also, you are expected to be completely competent in performing the aforementioned operations with signed numbers, fractions, and decimals without a calculator.

Make-ups (missing or late assignments, tests, etc.):

There will be **no retakes or make-ups** on chapter tests. If one test is missed, 80% of your final exam grade will be substituted for it; after that, missed tests will be counted as 0. **No late assignments will be accepted.**

Course Schedule:

We will start at the beginning of the book and work consecutively through it, covering all the sections in all six chapters.

**Evaluation (grading):**

Your grade in MAT 0028C will be determined from chapter tests, homework, lab activities, and the final exam. There will be two 150 point, one 200 point, and one 100 point chapter tests throughout the semester. Tests will emphasize new material, and will include any topics discussed earlier in class. Notebooks (for possible extra credit) will be collected at the beginning of the final exam, graded, and returned. A credible notebook will be organized as stated earlier. Your grade will be calculated as follows:

Task Points

Chapter tests: 2 @ 150pts., 1 @ 200pts., 600

**% Grade Calculation**

(your total points)

1200

1 @ 100pts.

Lab: 12 pts./absence deducted (one absence allowed)

Homework: IMathAS and submitted hmwk. 300

Final Exam: 300

Total Possible Points: 1,200

Extra Credit for Notebook: graded during final exam, 30 pts. possible.

**Note:** You are required to take the final exam to receive credit for this course. The date and time will be announced in class or check this session's class schedule.

**Final Exam:**

A final exam is required and will be delivered electronically via IMathAS. Calculators will not be permitted and formulas will not be provided. This rest is administered only one time; retakes are not allowed. It will count as 25% of the course grade.

There are 40 questions; the minimum passing score is 28 correct answers (70%). Note: The minimum score of 70% is waived if a student does all seven of the module quizzes (mentioned earlier) with a score of 100%. However, please note further that, whatever the final exam score, it is still 25% of the course grade.

There are two possibilities:

1) Student does not score 100% on all the modules: Student must pass the final exam with a minimum score of 70% (28 out of 40 correct) to receive a passing grade for the course.

2) Student scores 100% on all the modules: Student will not be required to have a minimum score of 70% on the final exam to receive a passing grade for the course.

**Overall Course Letter Grade:**

A: 90 -100, B: 80 - 89, C: 70 - 79, D: 60 - 69, F: less than 60

**Note:** Remember, you need at least a “C” to receive credit for this class!

**Withdrawal:**

The College has initiated withdrawal procedures and timelines in response to legislation/rules adopted by the state legislature and State Board of Community Colleges. The deadline to withdrawal from this course is in the current catalog, and is also available online at <http://valenciacollege.edu>. Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the withdrawal deadline of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will receive a grade of “W.” A student is not permitted to withdraw after the withdrawal deadline. A faculty member MAY withdraw a student up to the beginning of the final exam period for violation of the class attendance policy. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W.” Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of “F.”

For a complete policy and procedure overview on Valencia Policy 4-07 please go to:*http://valenciacc.edu/generalcounsel/policydetail.cfm?RecordID=75*

**Disclaimer:**

Changes to this syllabus and its content may be made at any time by the announcement of the instructor.