Title: College Algebra

Section: 106

CRN: 3210

Credit Hours: 5 Credits

Meeting Time: MTWRF: 1:00pm–1:50pm

Room: Corbly Hall 436

Prerequisites: ACT ≥ 19 or SAT ≥ 460 or MTH 99

Instructor: Spiro Stilianoudakis

Email: stilianoudak@marshall.edu

Office: SMH 115

Tutoring Hours: Mon. 2 p.m.-4 p.m.

 Thurs. 9 a.m.-12 p.m.

## **Recommended Materials:**

* Sullivan, ***College Algebra***, 9 edition. ISBN: 9780321716811
* Scientific calculator

## **Course Description & Objectives:**

* A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, equations, inequalities, and sequences.
* To prepare (along with trigonometry) students for a course in calculus.
* To prepare students for science and engineering courses.
* To give students a solid understanding of algebra and how it is used.
* To satisfy the mathematics general education requirement.

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| **Course Student Learning Outcomes** | **How students will practice each outcome in this Course** | **How student achievement of each outcome will be  assessed  in this Course** |
| Students will employ quantitative and analytical methods to solve problems drawn from basic algebra and geometry. | Students will attend class, complete homework, participate in class discussions, and ask questions.    | In-class quizzes, examinations, and final examination. |
| Students will solve real-world problems using techniques that employ method of variation.  | Students will attend class, complete homework, participate in class discussions, and ask questions.     | In-class quizzes, examinations, and final examination. |
| Students will use symmetry and transformations to create and analyze new functions and their graphs.  | Students will attend class, complete homework, participate in class discussions, and ask questions.   | In-class quizzes, examinations, and final examination. |
| Students will analyze and compare basic algebraic functions as well as exponential and logarithmic functions.  | Students will attend class, complete homework, participate in class discussions, and ask questions.     | In-class quizzes, examinations, and final examination. |
| Students will construct, evaluate, and graph functions to apply in real-world problems.  | Students will attend class, complete homework, participate in class discussions, and ask questions.   | In-class quizzes, examinations, and final examination. |
| Students will demonstrate the ability to work with equations and inequalities symbolically, visually, and numerically.  | Students will attend class, complete homework, participate in class discussions, and ask questions.     | In-class quizzes, examinations, and final examination. |
| Students will apply techniques of systems of linear equations to solve real world applications. | Students will attend class, complete homework, participate in class discussions, and ask questions.   | In-class quizzes, examinations, and final examination. |

## **Grading Policy**

* The final grade will be determined based on the earned aggregate score from the following possible points.

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| --- | --- |
| *Quizzes (5)* | 20 |
| *Exams (5)* | 100 |
| *Final (comprehensive)* | 100 |
| *Total* | 750 |

Letter grades will be assigned based on the following scale:

|  |  |
| --- | --- |
| **A:** | ≥ 90% |
| **B:** | 80% - 89.4% |
| **C:** | 70% - 79.4% |
| **D:** | 60% - 69.4% |
| **F:** | ≤ 59.4% |

* I do not post grades on blackboard or give grades via email. You will need to come see me for your current grade.
* If you find yourself struggling midway through the semester, come see me immediately and I will help you with any material you don’t understand.

**Attendance Policy**

* Students are expected to attend all scheduled classes. It is the student’s responsibility to find out what was discussed in a missed class. Attendance will be recorded, however attendance records will not be used to compute grades (except possibly in borderline cases). However, absences can be expected to significantly reduce your chances of success.
* I will follow the university excused absence policy.
* If you need to leave class early for any reason, you do not need to come up to me and tell me beforehand. Just get up and leave, I will assume it was for a good reason.

## **Homework**

* For topics discussed in class, problems from the textbook may be assigned as homework. These problems will not be graded; they are for your benefit in assisting you with understanding the material.
* It is your responsibility to understand the homework because quiz/exam questions may be based on these problems. You are encouraged to work with your peers on the homework outside of class and ask me if you have any questions.

## **Quizzes & Exam/Final**

* The lowest Exam score will be replaced with the Final score.
* If you miss a quiz/exam due to an unexcused absence, you will receive a grade of 0 for that quiz/exam. Earning a 0 is worse than an F with a positive score.
* If you miss a quiz/exam due to an excused absence, you must provide verification within one week of the quiz/exam.
* If you cannot be at the Final, let me know as soon as possible. Missing the Final without an unexcused absence means you receive an automatic grade of F for the course.
* i.e. no makeup quizzes/exams unless I receive a notice from Dean of Student Affairs.

## **Academic Integrity**

* Academic dishonesty includes cheating, plagiarism and all forms of misrepresentation in academic work is unacceptable. If suspected of academic dishonesty, Academic Affairs may be informed and proper sanctions imposed. Sanctions may include but not limited to the following, lower quiz/exam score, failure on quiz/exam, failure on course, or dismissal from the university.
* In a case where cheating is suspected, a student may be asked to re-take the quiz/exam. Confirmed cheating will result in a grade of 0 on the quiz/exam. Further details can be found on pg 102 of the Undergraduate Catalog[[1]](#footnote-1).

## **Academic Integrity (continued)**

* Any behavior that impedes the learning of students in this class is not acceptable. This includes the use of computers for non-class use, disruptive talking and the use of cell phones. You are expected to treat both the instructor and your peers with respect.

## **Special Needs**

* Any student who feels that he or she may need an accommodation for any sort of disability should visit Office of Disability Services[[2]](#footnote-2) and follow university policy to receive accommodations based on the disability. Direct your questions or comments to Sandra Clements, Director of Disabled Student Services.

## **Miscellaneous**

* The instructor reserves the right to implement any modifications to this syllabus during the semester to better enhance the class. All of these changes will be announced in class.
* Math tutoring is free and available to students in Smith Music Hall 115. No appointment is necessary. For more information: [www.marshall.edu/math/tutoringlab.asp](http://www.marshall.edu/math/tutoringlab.asp)
* **Use only your Marshall Email address when emailing me.** Please include a subject and the email should have an appropriate salutation & sentences should be written in proper English prose with only minor spelling and grammatical mistakes.

## **Ways to succeed in this course**

* Attend class
* Take notes
* Read the book
* Read and understand the examples in the book
* Do the assigned homework problems
* Ask questions in class if you don’t understand
* Go to the Math tutoring lab for help
* Email me or come in during my office hours for help

# **Tentative Schedule**

week 1

8/25: Introductions, R.1

8/26: R.2, R.3

8/27: R.4

8/28: R.5

8/29: R.6, R.7

week 2

9/1: LABOR DAY

9/2: R.7 (cont.)

9/3: R.8

9/4: APPENDIX ON GRAPHING CALCULATORS

9/5: 1.1

week 3

9/8: 1.2

9/9: 1.2 (cont.). 1.3

9/10: 1.3 (cont.)

9/11: 1.4

9/12: 1.5

week 4

9/15: 1.6 (just equations), 1.7

9/16: 1.7 (cont.)

9/17: REVIEW

9/18: TEST 1

9/19: 2.1

week 5:

9/22: 2.2

9/23: 2.2 (cont)

9/24: 2.3

9/25: 2.4

9/26: 3.1

week 6

9/29: 3.1 (cont)

10/30: 3.2

10/1: 3.2 (cont)

10/2: 3.3

10/3: 3.3 (cont)

week 7

10/6: 3.4

10/7: 3.5

10/8: 3.5 (cont)

10/9: REVIEW

10/10: TEST 2

week 8

10/13: 3.6

10/14: 4.1

10/15: 4.2

10/16: 4.3

10/17: 4.3 (cont)

week 9

10/20: 4.4

10/21: 5.1

10/22: 5.1 (cont), 5.2 (through top of page 347)

10/23: REVIEW

10/24: TEST 3

week 10

10/27: 5.2 (cont). 5.3

10/28: 5.3 (cont)

10/29: 5.5 (just pages 374- 377, inclusive)

10/30: 6.1

10/31: 6.1(cont)

week 11

11/3: 6.2

11/4: 6.2 (cont)

11/5: REVIEW

11/6: TEST 4

11/7: 6.3

week 12

11/10: 6.3 (cont)

11/11: 6.4

11/12: 6.4 (con)

 11/13: 6.5

11/14: 6.5 (cont)

week 13

11/17: 6.6

11/18: 6.6 (cont)

11/19: REVIEW

11/20: TEST 5

11/21: 6.8

THANKSGIVING BREAK

## Week 14

12/1: 8.1

12/2: 8.1 (cont)

12/3: CATCH UP DAY

12/4: REVIEW

12/5: REVIEW

FINAL (As scheduled for your class)

1. <http://muwww-new.marshall.edu/catalog/files/2013/01/ug_09-10_published.pdf> [↑](#footnote-ref-1)
2. [www.marshall.edu/disabled](http://www.marshall.edu/disabled) [↑](#footnote-ref-2)