**Marshall University**

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| Course Title/Number | **MTH 127 Sec 108 (CRN 3212)– College Algebra Expanded** |
| Semester/Year | **Fall 2014** |
| Days/Time | **MTWRF 2:00-2:50pm** |
| Location | **Smith Hall 113** |
| Instructor | Matt Lucas |
| Office | Smith Music 115 |
| Phone | 304 696-3986 |
| E-Mail | [**lucas89@marshall.edu**](mailto:lucas89@marshall.edu) |
| Office/Hours | M: 3-4, TR 1-2 |
| University Policies | By enrolling in this course, you agree to the University Policies listed below. Please read the full text of each policy be going to [www.marshall.edu/academic-affairs](http://www.marshall.edu/academic-affairs) and clicking on “Marshall University Policies.” Or, you can access the policies directly by going to [http://www.marshall.edu/academic-affairs/policies](http://www.marshall.edu/academic-affairs/?page_id=802)  **University Policies:** Academic Dishonesty, Excused Absence Policy for Undergraduates, Computing Services Acceptable Use, Inclement Weather, Dead Week, Students with Disabilities, Academic Forgiveness, Academic Probation and Suspension, Academic Rights and Responsibilities of Students, Affirmative Action, Sexual Harassment |

**Course Description: From Catalog**

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| A brief but careful review of the main techniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs, systems of equations and inequalities, sequences. 4 hrs. |

The table below shows the following relationships: How each student learning outcomes will be practiced and assessed in the course.

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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. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |
| Students will solve real-world problems using techniques that employ method of variation. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |
| Students will use symmetry and transformations to create and analyze new functions and their graphs. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |
| Students will analyze and compare basic algebraic functions as well as exponential and logarithmic functions. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |
| Students will construct, evaluate, and graph functions to apply in real-word problems. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |
| Students will demonstrate the ability to work with equations and inequalities symbolically, visually, and numerically. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |
| Students will apply techniques of systems of linear equations to solve real world applications. | Class Discussion, homework, group work, review sessions | In-Class Exams, Quizzes, group work, weekly graded homework, comprehensive final exam |

**Required Texts, Additional Reading, and Other Materials**

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| * **Required Textbook: *College Algebra*** byMichael Sullivan. 9th edition.ISBN: 9780321716811 * **A graphing calculator similar to TI-83 or TI-83 Plus** |

**Course Requirements / Due Dates**

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| 1. Exam 1 Friday September 19 2. Exam 2 Friday October 17 3. Exam 3 Friday November 14 |

**Grading Policy**

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| In-Class Exams (3 total) | 300 pts. | A | 800-720 pts |  |
| Quizes | 100 pts. | B | 719--640 pts |  |
| Homework | 100 pts. | C | 639-560 pts |  |
| Group Work | 100 pts | D | 559-480 pts |  |
| Final Exam | 200 pts. | F | < 480 pts |  |
| **TOTAL:** | **800 pts** |  |  |  |

**Attendance Policy**

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| [**ATTENDENCE:** The most important thing to you can do to ensure success in this course is to come to class! You are expected to be in class and on time for each scheduled class. Attendance will be taken at the beginning of each class. Though there is no specific attendance grade, you will be held responsible for anything you miss by missing class. **You will receive a zero for any exam, quiz, or in-class assignment you miss due to an unexcused absence.** Excused absences will not be penalized. To apply for an excused absence, go to the Office of Student Affairs located at the student center. |

**Course Schedule**

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| **Week** | **Dates** | **Sections Covered** | **Notes** |
| **1** | **Aug 25-29** | **1.1, 1.2, 1.3** |  |
| **2** | **Sept 1-5** | **1.4, 1.5, 1.6** | **No School Monday, Quiz 1** |
| **3** | **Sept 8-12** | **2.1, 2.2, 2.3** |  |
| **4** | **Sept 15-19** | **2.4, 3.1** | **Exam 1 on Friday (9/19)** |
| **5** | **Sept 22-26** | **3.2, 3.3, 3.4** |  |
| **6** | **Sept 29-Oct 3** | **3.5, 3.6, 4.1** | **Quiz 2** |
| **8** | **Oct 6-10** | **4.2, 4.3, 4.4** |  |
| **9** | **Oct 13-17** | **5.1, 5.2** | **Exam 2 on Friday (10/17)** |
| **10** | **Oct 20-24** | **5.3, 5.5, 6.1** |  |
| **11** | **Oct 27-31** | **6.2, 6.3, 6.4** | **Quiz 3** |
| **12** | **Nov 3-7** | **6.5, 6.6, 6.8** |  |
| **13** | **Nov 10-14** | **8.1, 8.2** | **Exam 3 on Friday (11/14)** |
| **14** | **Nov 17-21** | **8.3, 8.4** |  |
| **15** | **Nov 24-28** |  | **Thanksgiving Break** |
| **16** | **Dec 1-5** | **Review** | **Dead Week** |
| **17** | **Dec 8-12** |  | **Final Exam Monday (12/8) 12:45pm** |