**Marshall University**

**Syllabus**

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| Course Title/Number  | **MTH 127: College Algebra – Expanded (3000:103)** |
| Semester/Year | Fall 2016 |
| Days/Time | MTWTrF 10:00 – 10:50 |
| Location | Smith Hall 518 |
| Instructor | Rob-Roy Mace |
| Office | Smith Hall 743E |
| Phone | 304.696.7040  |
| E-Mail | mace22@marshall.edu |
| Office/Hours | MTWTrF 9:00 – 10:00 a.m.  |
| 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/?page_id=802> 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 maintechniques of algebra. Polynomial, rational, exponential, and logarithmic functions. Graphs,equations and inequalities, sequences. |

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 succeed in higher math classes, such as Trigonometry and Calculus. | Discussions, group work, board work, homework | Comprehensive final exam covering concepts encountered in higher math courses. |
| Students will see themselves as possessing the ability to understand and explain basic algebra concepts. | Discussions, group work, board work, homework | Participation in group quizzes, and presentation/explanation of homework solutions to classmates |
| Students will think critically. | Discussions, group work, board work, homework. | Tests and quizzes, including problems requiring synthesis of many ideas to solve unseen problems |

**Prerequisites**

ACT Math 19 or ACT Math 20 or MTH099 or MTH102 or MTH102B

**Course Content**

1. Solving equations (of various types) in one variable
2. Basic Functions
3. Polynomial and rational functions
4. Exponential and logarithmic function
5. Solving systems of linear equations in two variables

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

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| 1. College Algebra, 2nd edition by Paul Sisson.
2. Graphing calculator, such as a TI-83 or similar (Note: Cell phones, iPads, etc., are not permitted for use during exams.)
3. Access to the internet to complete online homework.
4. Writing materials (paper and pencil) for daily work in class.
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**Grading Policy**

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| Grades will be determined on a percentage basis with five 50-minute exams (each worth 10% of final grade), a comprehensive two-hour final exam (worth 20%), a variety of in class activities such as quizzes, projects, board-work (worth 15%), and online work (worth 15%).  Final Grade Scale: A: 100-90% B: 89-80%  C: 79-70%  D: 69-60%  F: 59-0% Students should keep all returned exams throughout the semester to study for the final exam. Also, students should be aware of their current grade, but may visit office hours to confirm whenever they wish. |

**Attendance Policy**

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| Attendance **is required**. Consult your handbook regarding university excused absences. Unexcused absences from **nine** classes will result in a reduction of one letter grade for the semester; unexcused absences from **twelve or more** classes will result in an F. Excessive use of cell phone or sleeping during class will be counted as an unexcused absence. It is the responsibility of the student to keep track of the number of unexcused absences they have accumulated. Y**ou must be in class to take quizzes or exams, turn in homework, etc.** If an excused absence results in missing quiz/exam/hw, then a make-up date (*within one week of absence*) must be scheduled with course instructor.  |