**Marshall University**

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| Course Title/Number | **College Algebra/ MTH 127** |
| Semester/Year | Fall 2014 |
| Days/Time | MTWRF 12:00pm – 12:50pm |
| Location | SH 518 |
| Instructor | Dibij Lamichhane |
| Office | Smith Music 115 |
| Phone | 304 696-3986 |
| E-Mail | lamichhane@marshall.edu |
| Office/Hours | M: 9am – 10am, F: 9am – 10am |
| 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. |

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** |
| 1. To prepare (along with trigonometry) students for a course in calculus.  2. To prepare students for science and engineering courses. 3. To give students a solid understanding of algebra and how it is used. 4. To develop facility in using graphing calculators to solve math problems. 5. To satisfy the mathematics general education requirement. | Homework, Exams, Quizzes. | Students will be evaluated on a combination of examinations, including a  comprehensive final exam administered by the Mathematics Department, collected homework or homework quizzes, in-class quizzes, presentations, and/or portfolios. |

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

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| 1. Sullivan, College Algebra, 9 edition. ISBN: 9780321716811 2. Scientific calculator 3. Webwork |

**Course Requirements / Due Dates**

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| 1. See Course Schedule. |

**Grading Policy**

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| Letter grades will be assigned based on the following scale:  A: ≥ 90%  B: 80% - 89.99%  C: 70% - 79.99%  D: 60% - 69.99%  F: ≤ 59.99% |

**Attendance Policy**

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| [Note that for undergraduate courses, the attendance policy may not violate the University’s excused absence 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. |

**Course Schedule**

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| Week Of | Section/Quiz/Exam |
| *Jan 25th* | R1 – R7 |
| *Sep 1st* | R7 – 1.1 |
| *Sep 8th* | 1.2 – 1.5 |
|  | **Sep 12th: Exam 1** |
| *Sep 15th* | *1.6 – 2.1* |
| *Sep 22nd* | 2.2 – 3.1 |
| *Sep 29th* | 3.1 – 3.3 |
|  | **Oct 3rd: Exam 2** |
| *Oct 6th* | 3.4 – 3.5 |
| *Oct 13th* | 3.6 – 4.3 |
| *Oct 20th* | 4.4 – 5.2 |
|  | **Oct 24th: Exam 3** |
| *Oct 27th* | 5.2 – 6.1 |
| *Nov 3rd* | 6.2 – 6.3 |
| *Nov 10th* | **6.3 – 6.5** |
|  | **Nov 14th: Exam 4** |
| *Nov 17th* | 6.6 – 6.8 |
| *Nov 24th* | Thanksgiving Break |
| *Dec 1st* | 8.1 & Review |
|  | **TBA: FINAL EXAM** |

# Detailed Course Objectives.

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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-word 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. |