**Marshall University**

**Syllabus**

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| Course Title/Number | Precalculus with Science Applications / MTH 132-104 |
| Semester/Year | Fall 2014 |
| Days/Time | MTWRF 1-150 pm |
| Location | SH 511 |
| Instructor | Jessica Briscoe |
| Office | SH 526B |
| Phone | (304) 696-6663 |
| E-Mail | [briscoe7@marshall.edu](mailto:briscoe7@marshall.edu) |
| Office/Hours | MWF 10-11, MTR 12-1 |
| 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  **Academic Dishonesty:** If a student behaves academically dishonest in any way, i.e. copying/turning in another’s work or cheating on quizzes or exams, I reserve the right to fail the individual. The behavior may be reported to the department chair and/or dean of the college and could result in expulsion from the university. Please refer to your handbook for further details.  **Disabilities and/or Special Needs:** If any students have a disability and/or special need that interferes with their involvement in the classroom, they must see the Office of Disability Services, Prichard Hall 117, phone 304-696-2271. Appropriate accommodations can then be made. |

**Course Description: From Catalog**

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| In this course we will be discussing polynomial, rational, exponential, logarithms and trigonometric functions. Some additional topics include graphs, vectors, systems of equations and inequalities, and 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 demonstrate and apply knowledge of properties of functions, including polynomial, rational, exponential, logarithmic and trigonometric functions. | Students will practice this outcome by doing homework and in class activities. | Students will be assessed on this outcome using quizzes and tests. |
| Students will perform basic operations and solve applications using vector algebra. | Students will practice this outcome by doing homework and in class activities. | Students will be assessed on this outcome using quizzes and tests. |
| Students will use properties of arithmetic and geometric sequences and series to identify terms, find sums and solve applications. | Students will practice this outcome by doing homework and in class activities. | Students will be assessed on this outcome using quizzes and tests. |

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

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| 1. The required text is Algebra and Trigonometryby Ron Larson. 2. A graphing calculator is required for this course. I suggest either a TI-84 or a TI-Inspire. 3. Students must also have an MU computer account for email. |

**Course Requirements / Due Dates**

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| 1. All due dates can be found on the course schedule. |

**Grading Policy**

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| **Student Assessment:** Students will be assessed using various methods, such as assigned  homework, quizzes, and exams. Homework will be due after the completion of  each chapter. It will be graded and returned promptly for the students’ review before each test.  Quizzes will be given after the submission of homework assignments, except on weeks when an  exam is scheduled. There will be a total of four exams and one final.  **Grading Scale:** 100% - 90% A  89% - 80% B  79% - 70% C  69% - 60% D  59% and below F  **Note:** Please note that an incomplete cannot be given unless the student completes 75% of the course. |

**Attendance Policy**

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| Attendance will not be taken, but students are strongly urged to attend since points may be  lost by not turning in assignments and/or missing quizzes and exams. Quizzes/Tests and assignments can  only be turned in and/or made up if the student is present or has a university excused absence. Please  consult your handbook for excused absences and the required documentation for excuses.  When in attendance I expect each student to behave respectively. You must not only have respect for me,  but respect for your fellow classmates as well. If your actions become disruptive or distracting for me  or another student, you will be asked to cease your behavior. If you choose to continue, you will be  asked to leave. Disruptive behaviors may include, but are not limited to, the following: cell phone use  in class, talking during class, and the use of iPods or mp3 players during class. |

**Tutoring Services**

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| Tutoring services are available in Smith Music Hall 115 daily. The schedule will be posted  on the door after the first week of classes. I strongly suggest you take advantage of this **FREE**  service. |

**Course Schedule (tentative):**

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| Week | Monday | Tuesday | Wednesday | Thursday | Friday |
| Aug 25-29 | Syllabus and Introductions | Ch P & 1.1  🡺Ch P Hmwk: pg 62 33,45,53,71,85, 87, 91,95,103,107  🡺1.1 Hmwk:15,17, 39,43,45,61,65,67, 69, 73 | 1.2 & 1.4  🡺1.2 Hmwk: 21-39 odd  🡺1.4 Hmwk: 21,23, 41,43,47,75,83,85, 107,113 | 1.5 &1.6  🡺1.5 Hmwk: 25,39,53,55,71,73, 75,81, 83,85  🡺1.6 Hmwk: 19, 29, 33, 39, 47, 53, 55, 59, 63, 85 | 1.7 & 1.8  🡺1.7 Hmwk: 19,23,35, 37,39,47,49,51,55,57  🡺1.8 Hmwk: 25-33 odd,39-47 odd |
| Sept 1-5 | **University Closed** | Homework Catch Up | Ch P and Ch 1 Hmwk Due  **Quiz 1**  2.1  🡺2.1 Hmwk: 29, 31, 43, 45, 51, 53, 55, 57, 75, 79 | 2.2 & 2.3  🡺2.2 Hmwk: 5,7,33,39,41,45,49,51,53,65  🡺2.3 Hmwk: 11,13,17,21,31,33, 51,53, 71,73 | 2.4  🡺2.4 Hmwk: 11,13,  19,21,23,27,29,35, 37,392.5 |
| Sept 8-12 | 2.5  🡺2.5 Hmwk: 21-39 odd | 2.6  🡺2.6 Hmwk: 13-21 odd,31,35-41 odd  2.7  🡺2.7 Hmwk: 19,25,29, 33, 39, 65, 67,69,73,77 | Homework Catch Up | Ch 2 Hmwk Due  Review | **Test 1** |
| Sept 15-19 | 3.1  🡺3.1 Hmwk: 17-25 odd, 47-53 odd, 75 | 3.2  🡺3.2 Hmwk: 19,21,23,35,37,39, 41,67, 93,95 | 3.3 & 3.4  🡺3.3 Hmwk: 11.13,15,27,29,31,47,49,59,61  🡺3.4 Hmwk:19,21, 63-75 odd, 87 | Homework Catch Up | Ch 3 Hmwk Due  **Quiz 2**  4.1  🡺4.1 Hmwk: 5,7, 13-27 odd 5.3 |
| Sept 22-26 | 4.2  🡺4.2 Hmwk:15-29 odd, 47,49 | Ch 4 Hmwk Due  **Quiz 3**  5.1  🡺5.1 Hmwk: 23-29 odd,35,37,51,53,67, 69 | 5.2  🡺5.2 Hmwk:29,31, 33,35,41,43,45,65, 67,77 | 5.3  🡺5.3 Hmwk: 33,35,37, 39, 51, 57, 67,75,79,81  5.4  🡺5.4 Hmwk:17,25, 31,39,41,51,55,57, 73, 75 | Homework Catch Up |
| Sept 29-Oct 3 | Ch 5 Hmwk Due  Review | **Test 2** | 6.1  🡺6.1 Hmwk: 19,21, 25, 45, 57, 63,67,87, 93, 97 | Unit Circle | 6.2  🡺6.2 Hmwk: 9,11,13, 15,39,41,45,49,53,69 |
| Oct 6-10 | 6.3  🡺6.3 Hmwk: 9,11,19,21,41,55,63,67,87, 89 | 6.4 & 6.5  🡺6.4 Hmwk: 33,37,39, 41, 43, 45, 61,63,83,85  🡺6.5 Hmwk: 15-29 odd, 51,55 | 6.6  🡺6.6 Hmwk:11, 15, 17, 41, 43, 47, 49, 51, 83,85 | Homework Catch Up | Ch 6 Hmwk Due  **Quiz 4**  7.1  🡺7.1 Hmwk: 23, 25, 27, 29, 33, 35,41,45, 49, 61 |
| Oct 13-17 | 7.2  🡺7.2 Hmwk: 13-31 odd | 7.3  🡺7.3 Hmwk: 25,27,29,31,39,41, 43,63, 65,67 | 7.4  🡺7.4 Hmwk: 29, 31, 39, 57, 59, 61, 63,69, 71,73 | 7.5  🡺7.5 Hmwk: 27,37,45,47,55,59, 61,63,69,71 | Homework Catch Up |
| Oct 20-24 | **Midterm Grades Due**  Ch 7 Hmwk Due  **Quiz 5**  8.1  🡺8.1 Hmwk: 15,17, 21, 25, 27, 29, 39, 41, 47, 49 | 8.2  🡺8.2 Hmwk: 11-17 odd, 23, 33, 35, 37, 39, 47 | 8.3  🡺8.3 Hmwk: 19,21,25,27,31,33,39,53,63,85 | 8.4  🡺8.4 Hmwk: 9,19, 25,31,33,41,43,53, 55,67 | 8.5  🡺8.5 Hmwk: 17, 19, 21, 33, 35, 37, 49, 51, 81ac, 83ac |
| Oct 27-31 | Homework Catch Up | Ch 8 Hmwk Due  Review | **Test 3** | 9.1  🡺9.1 Hmwk:15-23 odd, 33-41 odd | **Last Day to Drop**  9.2  🡺9.2 Hmwk:11-29 odd |
| Nov 3-7 | 9.3  🡺9.3 Hmwk: 25-43 odd | 9.4  🡺9.4 Hmwk: 17-35 odd | Homework Catch Up | Ch 9 Hmwk Due  **Quiz 6**  10.1  🡺10.1 Hmwk: 17, 19, 65-79 odd | 10.2  🡺10.2 Hmwk: 9,11,27,29,31,35,37,43,45,47 |
| Nov 10-14 | 10.3  🡺10.3 Hmwk: 9-23 odd, 49,55 | 10.4  🡺10.4 Hmwk: 7-19 odd, 53, 81, 85 | Homework Catch Up | Ch 10 Hmwk Due  Review | **Test 4** |
| Nov 17-21 | 11.1  🡺11.1 Hmwk: 13,15,17,37,39,41, 59,61, 67,69 | 11.2  🡺11.2 Hmwk: 13,15,21,23,25,31, 33,47,49,61 | 11.3  🡺11.3 Hmwk: 13,15, 23,25,33,35,55,57,59,61 | Homework Catch Up | Ch 11 Hmwk Due  **Quiz 7** |
| Nov 24-28 | **Fall Break** | **Fall Break** | **Fall Break** | **Fall Break** | **Fall Break** |
| Dec 1-5 | Dead Week | Dead Week | Dead Week | Dead Week | Dead Week |
| Dec 8-12 |  |  |  |  | **Final 1245-245** |