**Marshall University**

**Syllabus**

|  |  |
| --- | --- |
| Course Title/Number | Precalculus with Science Applications / MTH 132-104 / CRN: 3055 |
| Semester/Year | Fall 2015 |
| 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 | MW 10-11 & 12-1, TR 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 by 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 [www.marshall.edu/academic-affairs/policies/](http://www.marshall.edu/academic-affairs/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  **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.  **Inclement Weather Policy:** Students can find information concerning Marshall’s  policy regarding inclement weather on pp. 64-65 of the 2010-  2011 undergraduate online catalog  http://www.marshall.edu/catalog/undergraduate/ug\_10-  11\_published.pdf. |

**Course Description: From Catalog**

|  |
| --- |
| Functions used in calculus including polynomial, rational, exponential, logarithmic, and trigonometric. Systems of equations and inequalities, conic sections, polar and parametric equations, sequences and series, Binomial Theorem. PR: ACT Math 24 or MTH127 or MTH130. |

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

|  |  |  |
| --- | --- | --- |
| **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**

|  |
| --- |
| 1. The required text is Algebra and Trigonometryby James Stewart, 4th Edition. 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**

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

**Grading Policy**

|  |
| --- |
| **Student Assessment:** Students will be assessed using various methods, such as assigned  Homework 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. 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**

|  |
| --- |
| 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. 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**

|  |
| --- |
| 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):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week | Monday | Tuesday | Wednesday | Thursday | Friday |
| Aug 24-28 | Syllabus and Introductions | Ch P & 1.1  🡺ChP Hmwk pg 76: 53,55,59,63,77,89,93, 95,109, 111  🡺1.1 Hmwk:21,23,25, 27,29,31,33,39,41,43 | 1.2 & 1.3  🡺1.2 Hmwk:9,11,49, 51,73,75,91 93, 95,97  🡺1.3 Hmwk:23,27,31, 33,35,37,40,43,59,67 | 1.4 & 1.5  🡺1.4 Hmwk:5,9,17,19, 27,33,37,47,49,57  🡺1.5 Hmwk:19,29,33, 41,49,53,61,63,65,67 | 1.6 & 1.7  🡺1.6 Hmwk:7,13,21, 23,25,31,37,43,49,59  🡺1.7 Hmwk:13,17,25, 27,33,39,47,55,57,59 |
| Aug 31- Sept 4 | 1.8  🡺1.8 Hmwk:5,9,13, 15,17,27,29,31,33,39 | Homework Day | Ch 1 Hmwk Due  2.1  🡺2.1 Hmwk:19,21,25, 31,33,43,47,55,57,59 | 2.2 & 2.3  🡺2.2 Hmwk:33-45 odd, 51,53,55  🡺2.3 Hmwk:7,9,13,15, 21,31,33,43,45,47 | 2.4 & 2.6  🡺2.4 Hmwk:7,9,11, 13,15,17,19,21,23,25  🡺2.6 Hmwk:29-43 odd,83,85 |
| Sept 7-11 | **University Closed**  No Class | 2.7 & 2.8  🡺2.7 Hmwk:11,15,27, 29,33,47,49,51,53,55  🡺2.8 Hmwk:13,17,25, 37,51,53,55,57,85,87 | Homework Day | Ch 2 Hmwk Due  3.1  🡺3.1 Hmwk:9,11,13, 15,17,25,27,29,47,51 | 3.2  🡺3.2 Hmwk:5-19 odd, 51,53 |
| Sept 14-18 | 3.3 & 3.4  🡺3.3 Hmwk:15,17,19, 21,25,27,29,39,53,55  🡺3.4 Hmwk:11,13,15, 17,29,31,45,47,49,65 | 3.5  **🡺**3.5 Hmwk:27,37,39, 47-59 odd | 3.6  🡺3.6 Hmwk:21,31,33, 35,37,43,45,57,63,73 | 3.7  🡺3.7 Hmwk:3,5 7,9,11, 17,19,21,23,25 | Homework Day |
| Sept 21-25 | Ch 3 Hmwk Due  Review | **Test 1** | 4.1 & 4.2  🡺4.1 Hmwk:7,9,11, 13,21,23,27,29,31,33  🡺4.2 Hmwk:3-15 odd,23,27,29 | 4.3 & 4.4  🡺4.3 Hmwk:25,27,29, 35,37,39,49,51,61,65  🡺4.4 Hmwk:23,33,35, 37,39,49,51,53,55,57 | 4.5  🡺4.5 Hmwk:3,21,23, 35,39,49,51,59,63,67 |
| Sept 28-Oct 2 | Homework Day | Ch 4 Hmwk Due  5.1 and Unit Circle  🡺5.1 Hmwk:5,9,17,19, 31,35,37,53,55,63 | 5.2  🡺5.2 Hmwk:3,5,15, 17,23,29,31,33,37,39 | 5.3 & 5.4  🡺5.3 Hmwk:13,17,25, 27,37,39,47,49,51,53  🡺5.4 Hmwk:5,7,9,17, 19,23,25,27,39,43 | 5.5  🡺5.5 Hmwk:9-23 odd, 31,33 |
| Oct 5-9 | 5.6  🡺5.6 Hmwk:11,13,15, 17,19,27,29,31,39,51 | Homework Day | Ch 5 Hmwk Due  6.2 & 6.3  🡺6.2 Hmwk:5,7,  63-77 odd  🡺6.3 Hmwk:5,19,23, 31,33,35,37,47,49,51 | 6.4  🡺6.4 Hmwk:9,11,19, 23,29,31,35,37,39,41 | 6.5  🡺6.5 Hmwk:3-21 odd |
| Oct 12-16 | Homework Day | Ch 6 Hmwk Due  Review | **Test 2** | **Midterm Grades Due**  7.1 & 7.2  🡺7.1 Hmwk:3,7,13,15, 17,37,45,51,55,65  🡺7.2 Hmwk:3,5,15,17, 21,25,27,29,31,33 | 7.3  🡺7.3 Hmwk:73-91 odd |
| Oct 19-23 | 7.4 & 7.5  🡺7.4 Hmwk:5,7,25, 27,29,39,41,43,45,47  🡺7.5 Hmwk:3,5,17, 23,31,33,39,43,47,53 | Homework Day | Ch 7 Hmwk Due | 8.1 & 8.2  🡺8.1 Hmwk:5,9,29,31, 37,39,45,47,51,55  🡺8.2 Hmwk:3,5,7,23, 25,27,29,31,33,35 | 8.3  🡺8.3 Hmwk:29,31,33, 49,51,57,59,65,67,77 |
| Oct 26-30 | 8.4  🡺8.4 Hmwk:3-17 odd,39,41 | Homework Day | Ch 8 Hmwk Due  10.1  🡺10.1 Hmwk:5,7,9, 11,13,21,23,25,27,29 | 10.2  🡺10.2 Hmwk:17-35 odd | **Last Day to Drop**  10.5  🡺10.5 Hmwk:31-49 odd |
| Nov 2-6 | 10.3  🡺10.3 Hmwk:13-31 odd | Homework Day | Ch 10 Hmwk Due  Review | **Test 3** | 12.1  🡺12.1 Hmwk:5-15 odd,31,33,35,49 |
| Nov 9-13 | 12.2  🡺12.2 Hmwk:5,7,9, 11,13,29,31,39,41,43 | 12.3  🡺12.3 Hmwk:5,7,9,11, 13,27,29,37,39,41 | Homewok Day | Ch 12 Homework Due  13.1  🡺13.1 Hmwk:3,5,15, 17,27,29,31,47,53,67 | 13.2  🡺13.2 Hmwk:7,11,13, 27,33,35,37,51,53,55 |
| Nov 16-20 | 13.3  🡺13.3 Hmwk:5,9,11, 23,29,59,61,63,65,67 | 13.6  🡺13.6 Hmwk:5,7,9,11, 17,19,21,25,29,33 | Homework Day | Ch 13 Hmwk Due  Review | **Test 4** |
| Nov 23-27 | **Fall Break** | **Fall Break** | **Fall Break** | **Fall Break** | **Fall Break** |
| Nov 30-Dec 4 | Dead Week  Review? | Dead Week  Review? | Dead Week  Review? | Dead Week  Review? | Dead Week  Review? |
| Dec 7-11 |  |  |  |  | **Final 1245-245** |