**Marshall University**

**Syllabus**

|  |  |
| --- | --- |
| Course Title/Number | Precalculus with Science Applications/MTH 132-201/CRN: 4043 |
| Semester/Year | Spring 2016 |
| Days/Time | MTWRF 8-850 am |
| Location | SH 511 |
| Instructor | Jessica Briscoe |
| Office | SH 526B |
| Phone | (304) 696-6663 |
| E-Mail | briscoe7@live.marshall.edu |
| Office/Hours | MWF 9-10, TR 9-1030 |
| 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.” You can also access these 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/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  [www.marshall.edu/catalog/undergraduate/ug\_10-11\_published.pdf](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, and Binomial Theorem. PR: ACT 24 or MTH 127 or MTH 130. |

**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 student will practice each outcome in this course** | **How student achievement of each outcome will be assessed in this course** |
| Student will demonstrate and apply knowledge of properties of functions, including polynomial, rational, exponential, logarithmic and trigonometric. | Students will practice this outcome by doing homework and in class activities. | Students will be assessed on this outcome using quizzes and tests. |
| Student 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 Trigonometry by James Stewart, 4th Edition. 2. A graphing calculator is required for this course. I suggest either a TI-84 or a TI-Nspire. 3. Students must also have an MU computer account for email. |

**Course Requirements/Due Dates**

|  |
| --- |
| All due dates can be found in 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 a final.  **Grading Polcy:** 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 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 respectfully. 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 behavior 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 that you take advantage of this **FREE** service. |

**Course Schedule (tentative)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Week | Monday | Tuesday | Wednesday | Thursday | Friday |
| Jan  11-15 | Syllabus and  Introductions | Ch P & 1.1  Ch P 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 |
| Jan  18-22 | **University Closed** | 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 |
| Jan  25-29 | 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 | 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 |
| Feb  1-5 | 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 |
| Feb  8-12 | 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 |
| Feb  15-19 | 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 |
| Feb  22-26 | 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 |
| Feb 29-  Mar 4 | Homework Day | Ch 6 Hmwk Due  Review | **Test 2** | 7.1  7.1 Hmwk:3,7,13,15,  17,37,45,51,55,65 | 7.2  7.2 Hmwk:3,5,15,17,  21,25,27,29,31,33 |
| Mar  7-11 | **Midterm Grades Due**  7.3  7.3 Hmwk:73-91 odd | 7.4  7.4 Hmwk:5,7,25,27,  29,39,41,43,45,47 | 7.5  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:3,5,7,23-35  odd |
| Mar  14-18 | 8.3  8.3 Hmwk:29,31,33,  49,51,57,59,65,67,77 | 8.4  8.4 Hmwk:3-17 odd,  39,41 | Homework Day | Ch 8 Hmwk Due  9.1  9.1 Hmwk:13,15,17,  27,31,37,41,43,47,49 | **Last Day to Drop**  9.2  9.2 Hmwk:5-23 odd |
| Mar  21-25 | Spring Break | Spring Break | Spring Break | Spring Break | Spring Break |
| Mar 28-  Apr 1 | Homework Day | Ch 9 Hmwk Due  Review | **Test 3** | 10.1  10.1 Hmwk:5,7,9,11,  13,21,23,25,27,29 | 10.2  10.2 Hmwk:17-35 odd |
| Apr  4-8 | 10.3  10.3 Hmwk:13-25 odd,  37,41,43 | 10.5  10.5 Hmwk:31-49 odd | Homework Day | Ch 10 Hmwk Due  11.1  11.1 Hmwk:39-57 odd | 11.2  11.2 Hmwk:9-27 odd |
| Apr  11-15 | 11.4  11.4 Hmwk:5-13 odd,  21-29 odd | 11.3  11.3 Hmwk:11-19  odd,39-47 odd | Homework Day | Ch 11 Hmwk 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 |
| Apr  18-22 | 13.3  13.3 Hmwk:5,9,11,23,  29,59,61,63,65,69 | 13.6  13.6 Hmwk:5,7,9,11,  17,19,21,25,29,33 | Homework Day | Ch 13 Hmwk Due  Review | **Test 4** |
| Apr  25-29 | Dead Week  Review | Dead Week  Review | Dead Week  Review | Dead Week  Review | Dead Week  Review |
| May  2-6 | **Final 8-10am** |  |  |  |  |