**Marshall University**

**Syllabus**

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| Course Title/Number | Precalculus with Science Applications/MTH 132-208 CRN: 5793 |
| Semester/Year | Spring 2018 |
| Days/Time | MTWRF 8-850 am |
| Location | SH 516 |
| Instructor | Tracy Marsh |
| Office | SH 526A |
| Phone | (304) 696-3016 |
| E-Mail | marsh9@marshall.edu |
| Office/Hours | MWF 9 – 10:40 am |
| 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:** Policy for Students with Disabilities: Marshall University is committed to equal opportunity education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disability Services (ODS) in Prichard Hall 117 (304.696.2467) to provide documentation of their disability. Following this, the ODS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experience, outside assignment, testing, and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, access the website for the Office of Disabled Student Services: [http://www.marshall.edu/disabled.](http://www.marshall.edu/disabled)  **Inclement Weather Policy:** Students can find information concerning Marshall’s policy regarding inclement weather by following the link <http://www.marshall.edu/academic-affairs/policies/#InclementWeather> . |

**Course Description** (from catalog)**:**

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| 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 Math 24 or SAT Math 560, or a grade of C or higher in MTH 127 or MTH 130. 5 Credit Hours. |

**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 student will practice each outcome in this course** | **How student achievement of each outcome will be assessed in this course** |
| Students will further develop algebraic skills (ex. solving equations), which are essential in calculus. | 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 learn about trigonometric fucnctions and their applications with an intent for calculus. | 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 learn about the functions which are used in calculus (ex. graphing and other properties). | 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 learn which functions are appropriate for modeling different types of growth and change. | 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 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**

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| All due dates can be found in the course schedule. |

**Grading Policy**

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| **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. Late homework will only be accepted for one week after the initial due date. 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.  The following point totals will assure the accompanying letter grade:  90% A 80% B 70% C 60% D Below 60% F  The grading scale is rigid. Students will receive the grade that they earn from the work that they do.   |  |  |  | | --- | --- | --- | | **Category** | **% of Grade** |  | | In-Class Exams | 60% |  | | Homework | 15% |  | | Final Exam | 25% |  |   **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:** Students are expected to attend and participate in each class. Unexcused absences from **three** classes will result in a reduction of one letter grade for the semester; unexcused absences from **five or more** classes will result in an **F**. **To obtain an excused absence**, please send the instructor an email explaining why you are not in class or go to the Dean of Students’ Office in the MSC.  **Make-up exams:** Students must notify the instructor in person or by e-mail prior to an exam if they cannot take a scheduled exam. Students must present a university excused absence before scheduling a make-up exam. Makeup exams will be given to students **outside of class time** at the convenience of the instructor (Monday through Friday) **within one week** after the regularly scheduled exam. *After one week absences are not excusable for make-up exams and, for excused absences, you will need to wait until Dead Week to make the exam up (it will be your job to remind me that I need to make another exam just for you during Week 14).*  **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**

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| Tutoring services are available in Smith Hall 625 daily. The schedule will be posted on the door after the first week of classes. Information and the schedule can also be found by following the link <http://www.marshall.edu/math/tutoring/> . I strongly suggest that you take advantage of this **FREE** service. |

**Course Schedule (tentative)**

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| Week | Monday | Tuesday | Wednesday | Thursday | Friday |
| Jan 8-12 | 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 15-19 | **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 |
| Jan22-26 | 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 |
| Jan 29-Feb 2 | 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 5-9 | 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 12-16 | 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 19-23 | 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 26-Mar 2 | **Midterm Grades Due**  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 5-9 | 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 12-16 | 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 19-23 | **Spring Break**  University closed | **Spring Break**  University closed | **Spring Break**  University closed | **Spring Break**  University closed | **Spring Break**  University closed |
| Mar 26-30 | 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 2-6 | 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 9-13 | 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 16-20 | 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 23-27 | Dead Week  Review | Dead Week  Review | Dead Week  Review | Dead Week  Review | Dead Week  Review |
| Apr 30-May 4 | **Final 8-10am** |  |  |  |  |