Marshall University Syllabus

Course Title/Number	**MTH 229 – Calculus I**
Semester/Year	Spring 2014
Days/Time	MTWRF 1:00-1:50 PM
Location	Gullickson Hall 121
Instructor	Dr. Elizabeth Niese
Office	Smith Hall 743C
Phone	304-696-3609
E-Mail	niese@marshall.edu
Office/Hours	MW 10 am - 12 pm (SH 743C) F 11 am -12 pm in Smith Music Hall 115 or **by appointment**
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 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

Course Description: From Catalog

An introduction to calculus and analytic geometry. Topics covered include limits, rates of change, derivatives and their applications, and integration.

Course Student Learning Outcomes Students will...	**How students will practice each outcome in this Course**	**How student achievement of each outcome will be assessed in this Course**
Discuss the major themes of Calculus 1: limits, derivatives, and integrals	Webwork, Classwork, Quizzes, Class Discussions	Lab assignments, Tests, weekly problem sets
Describe the relationships between a function and its derivative and integral	Webwork, Classwork, Quizzes, Class Discussions	Lab assignments, Tests, weekly problem sets
Calculate limits, derivatives and integrals	Webwork, Classwork, Quizzes, Class Discussions	Lab assignments, Tests, weekly problem sets
Demonstrate information literacy by determining which information is necessary to solve a problem and by being able to use provided data sets to make mathematical conclusions	Webwork, Classwork, Quizzes, Class Discussions	Lab assignments, Tests, weekly problem sets
Consider limits, derivatives, and integrals from multiple perspectives (i.e., graphical, algebraic, approximations)	Webwork, Classwork, Quizzes, Class Discussions	Lab assignments, Tests, weekly problem sets
Construct and analyze mathematical arguments	Webwork, Classwork, Quizzes, Class Discussions	Lab assignments, Tests, weekly problem sets

Required Texts, Additional Reading, and Other Materials

Calculus, Early Transcendentals, 2nd Ed. Jon Rogawski – Please note that the electronic version is different than the print version. Due to the differences I strongly recommend you purchase the print version.

Course Requirements / Due Dates

1. **Webwork** – An online homework system for mathematics. We will have 3-5 webwork assignments per week. Due dates will be announced in class and will be posted on the Webwork system. Webwork can be accessed at http://webwork.marshall.edu/
2. **Quizzes** – There will be (almost) daily quizzes. These will most often be brief 1-2 question quizzes designed to keep you on track with memorization and concept acquisition.
3. **Problem Sets** – Weekly written problem sets will be assigned. These sets will be oriented toward the big ideas as well as multi-step problems that are unsuitable for computer-based assessment. Problem sets will be posted on MUOnline weekly.
4. **Labs –** There will be four small-group lab assignments (roughly 1 per chapter) during the semester. Tentative lab dates and due dates are listed in the course schedule.
5. **Tests –** There will be four tests during the semester, each on roughly one chapter of material and a comprehensive final exam. These will be short answer tests. Scientific calculators are permitted, but calculators with graphing capabilities are prohibited.

Grading Policy

Written Homework	12%
Webwork	8%
Quizzes	8%
Labs 1-4	12% (3% each)
Exams 1-4	48% (12% each)
Comprehensive Final Exam	12%
Total	100%

Attendance Policy

If you miss class on an exam day, you will receive a 0 on that test. In the event of a university-excused absence from a test, you will either take the test early or the final exam grade will replace the missed test. In general, make-up quizzes are not given as several quiz grades are dropped at the end of the semester. In the event of an excused absence, you will simply be excused from the quiz. Late Webwork and written problem sets are not accepted without a university-excused absence. In the event that you cannot make it to campus, you may scan and submit an electronic version of your problem set. **Please keep in mind that if you miss class, YOU are responsible for any missed material. This includes obtaining notes from a classmate, reading the appropriate section in your text, and completing any work assigned on time.**

Course Schedule (All lab and test dates are TENTATIVE except for the Final Exam)

January 14 – Calculus Readiness Test
January 20 – No Class
January 27 – Lab 1
February 5 – Test 1
February 18 – Lab 2
February 27 – Test 2
March 13 – Lab 3
March 17 – March 21 – SPRING BREAK
March 28 – Test 3
April 11 – Lab 4
April 25 – Test 4
Friday, May 9 – Final Exam 12:45 – 2:45 PM