Marshall University
Syllabus
MTH 428/528

Course Title/Number	MTH 428 (CRN: 4169) & MTH 528 (CRN: 4183) *Advanced Calculus II*
Semester/Year	Spring 2015
Days/Time	TH 2:00-3:15 PM
Location	Smith Hall 516
Instructor	Dr. Elizabeth Niese
Office	Smith Hall 743C
Phone	(304)696-3609
Email	niese@marshall.edu Please include your name and subject line MTH 428/528 in your email.
Office/Hours	**MW 1-1:50 PM, TR 9:00-10:30 AM, other hours by appointment** To make an appointment, please email 24 hours in advance when possible.
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 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

Course Description: A rigorous development of algebra and topology of Euclidean spaces, differentiability and integrability of functions of several variables. (PR: C or better in MTH 427/527)

Course Student Learning Outcomes:	**How students will practice each outcome:**	**How student achievement of each outcome will be assessed**
Students will be able to write clear, concise, formal proofs of results from mathematical analysis.	Students will complete weekly problem sets and participate in boardwork in class, low-stakes writing assignments, and students will engage in peer review of written and oral explanations of concepts.	Students' understanding will be assessed by three midterm exams and a comprehensive final exam.
Students will be able to devise techniques to solve particular problems as they arise.	Students will complete weekly homework assignments and participate in boardwork in class.	Students will be assessed by three midterm exams and a comprehensive final exam.

Required Course Materials:

- **Textbook:** *An Introduction to Analysis, 2nd Edition* by James R. Kirkwood
- ***MUOnline:*** Assignments, announcements, and other course materials will be posted regularly on MUOnline.

Course Requirements:

- **Reading Assignments:** There will be 1-2 reading assignments given each week. The assignment will be checked the following class period.
- **Homework:** Homework will be assigned once or twice a week and will be posted on MUOnline. Late homework assignments are not accepted, except in extenuating circumstances or University-approved absences.
- **Tests:** There will be two midterm exams during the semester and a comprehensive final exam. If you know in advance that you will have an excused absence on a test date, please make arrangements to take the test early. In the event of an excused absence on test day, your final exam grade will also substitute for the missed test. Tentative test dates are: February 19, April 9, **Final Exam:** Thursday, May 7, 12:45-2:45 pm.

Grading Policy:
Your final course grade will be calculated as follows:

Reading:	15%
Homework:	40%
Midterm Exams:	30% (15% per exam)
Final Exam:	15%

$> 90\%$	**A**
$80\% - 89\%$	**B**
$70\% - 79\%$	**C**
$60\% - 69\%$	**D**
$< 60\%$	**F**

Attendance Policy:
Attendance at all scheduled class times is expected. Make-up tests will only be given in the event of an excused absence. If you know in advance that you will be absent, please make arrangements to take the test early if possible. If you are ill and cannot make it to class, it is courteous to send me an email notifying me. You are responsible for all material missed and should try to get a copy of a classmate's notes.

Tentative Schedule:

Week 1: 4.1 (Review)-4.2

Week 2: 5.1

Week 3: 5.2

Week 4: 6.1

Week 5: 6.2

Week 6: Test 1

Week 7: 6.3

Week 8: 7.1

Week 9: 7.1-7.2

Week 10: 7.2

Week 11: 8.1

Week 12: Test 2

Week 13: 8.2

Week 14: 8.3

Week 15: Review