Marshall University
Syllabus

Course Title / Number	MTH 231: Calculus III (CRN 3262)
Semester/Year	Fall 2014
Days/Time	MTWR 2PM – 2:50PM
Location	Smith Hall 511
Instructor	Dr. Michael Schroeder
Office	742F Smith Hall
Phone	(304) 696-6643
E-Mail	`schroederm@marshall.edu`
Office/Hours	MWF 9AM (Smith 742F) & TR 1PM (Smith 742F)

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 Rights and Responsibilities of Students
	Excused Absence Policy for Undergraduates
	Academic Probation and Suspension
	Computing Services Acceptable Use
	Students with Disabilities
	Academic Forgiveness
	Academic Dishonesty
	Affirmative Action
	Inclement Weather
	Sexual Harassment
	Dead Week

Course Description: From Catalog

Vectors, curves, and surfaces in space. Derivatives and integrals of functions of more than one variable. A study of the calculus of vector-valued functions. (4 hours) (PR: C or better in MTH 230)

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 learn ...		
a sound understanding of the fundamental concepts of calculus and analytic geometry and a thorough appreciation of its many applications. The limit is the foundation for all of the calculus;	low-stakes quizzes, homework, classwork	midterms and final exam
a deeper understanding of the mathematics that is used in their science and engineering courses;	low-stakes quizzes, homework, classwork	midterms and final exam
To develop facility in using graphing calculators and computers to solve mathematics problems;	low-stakes quizzes, homework, classwork	midterms and final exam

Required Texts, Additional Reading, and Other Materials

1. Rogawski, John. *Calculus with Early Transcendentals.* 2nd Edition. (ISBN: 9781429208383)

Course Requirements / Due Dates

1. Homework will be assigned using WeBWorK, an on-line homework program. Almost all homework will be submitted on-line. There will be assignments due multiple times per week. Deadlines will be posted on-line. Your homework assignments can be found here:

   `http://webwork.marshall.edu/webwork2/S14-Math-132-Schroeder/`

   Homework due dates are posted in WeBWorK.
2. There will be in-class quizzes given nearly every day, each for three (3) points. The top 50 grades will account for 150 points.
3. We will have three (3) mid-term exams and a final exam in this course. Each midterm exam will be worth 150 points. The final exam will be worth 300 points. Notecards, books, and all other material is prohibited. The final will be comprehensive. An unexcused absence for an exam will result in a **zero (0)** for that grade. An excused absence as determined by the Office of Student Affairs (location at MSC2W38) will warrant a makeup exam.

Grading Policy

This course will be graded from a total of 1000 points. Letter grades will be assigned based on the chart to the right.

Graded Work	Point Value
Homework	100
Quizzes	150
Midterm Exams (150 points each)	450
Final Exam	300
TOTAL	1000

Point Ranges	Letter Grade
900 - 1000	A
800 - 899	B
700 - 799	C
600 - 699	D
0 - 599	F

Attendance Policy

You are responsible for everything that is said and covered in class each day. Attendance is strongly recommended. Attendance and participation will be key factors in border-line grades getting bumped.

Course Topics

Topics discussed will include: vectors, partial derivatives, multivariable optimization, integration, and applications of integration in multiple variables.

Course Schedule

There are approximately 3-4 homework assignments due each week.
Their due dates are posted in WeBWorK.

There are three (3) midterms given throughout the semester.
Their dates will be announced at least one (1) week beforehand.

The final exam will be given on Thursday, December 11, 2014 at 12:45PM.

MTH 231: Calculus III

Specific Class Information

Semester:	Fall 2014	**Instructor:**	Dr. Michael Schroeder
CRN:	3262 (102)	**Email:**	schroederm@marshall.edu
Meeting Days:	MTWR	**Office (Phone):**	Smith Hall 742F, (304) 696-6643
Meeting Time:	2:00PM – 2:50PM	**Office Hours:**	MWF 9AM to 10AM, TR 1PM to 2PM
Classroom:	Smith Hall 511	**Tutoring Lab:**	Smith Music 115
		Lab Hours:	M-R 9AM to 5PM, F 9AM to noon

Required Text: Rogawski, John. *Calculus with Early Transcendentals.* 2nd Edition. (ISBN: 9781429208383)
Prerequisites: C or better in MTH 230
Calculators: Calculators are permitted – no phones on exams.

Learning Outcomes, Methods, and Assessment

In this course, there are three primary learning outcomes for students to take away. Each are listed below, along with the means by which students will practice for each outcome, along with the methods of assessment.

Desired MTH 231 Learner Outcomes/Objectives

Successful students will learn ...

- a sound understanding of the fundamental concepts of calculus and analytic geometry and a thorough appreciation of its many applications. The limit is the foundation for all of the calculus.
- a deeper understanding of the mathematics that is used in their science and engineering courses.
- To develop facility in using graphing calculators and computers to solve mathematics problems.

Practice and Assessment Methods

The student will have low-stakes quizzes, homework, projects, and other activities to serve as practice. The midterm and final exams will serve as the assessment tool.

Course Description

Vectors, curves, and surfaces in space. Derivatives and integrals of functions of more than one variable. A study of the calculus of vector-valued functions. (4 hours)

Course Policies

Attendance

You are responsible for everything that is said and covered in class each day, along with any class material posted online. Attendance is strongly recommended. Attendance and participation will be key factors in border-line grades getting bumped.

Homework

Homework will be assigned using WeBWorK, an on-line homework program. Almost all homework will be submitted on-line. There will be assignments due multiple times per week. Deadlines will be posted on-line. Your homework assignments can be found here:

http://webwork.marshall.edu/webwork2/S14-Math-132-Schroeder/

Course Policies (cont.)

Quizzes

There will be short in-classes quizzes at the beginning of class on most days during the semester. Each quiz is worth three (3) points. Your top 50 quiz grades will be added to get your quiz grade for the semester.

Exams

We will have three (3) mid-term exams and a final exam in this course. Each midterm exam will be worth 150 points, and the lowest exam score will be dropped. The final exam will be worth 300 points and is comprehensive. An unexcused absence for an exam will result in a **zero (0)** for that grade. An excused absence as determined by the Office of Student Affairs (location at MSC2W38) will warrant a makeup exam.

The **final exam** is Thursday, December 11, 2014 at 12:45PM.

Grade Scale

This course will be graded from a total of 1000 points. Letter grades are assigned on a 100-point scale.

Graded Work	Point Value
Homework	100
Quizzes	150
Midterm Exams (150 points each)	450
Final Exam	300
TOTAL	1000

Point Ranges	Letter Grade
900 - 1000	A
800 - 899	B
700 - 799	C
600 - 699	D
0 - 599	F

University-Wide Policies

You are responsible for knowing all university policies, which can be found at

`http://www.marshall.edu/academic-affairs/?page_id=802`

About this Syllabus

This syllabus is subject to change at my discretion.