Course Syllabus MTH 230 Section 101 Fall 2017

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Course Title:	Calculus with Analytic Geometry II		
Course Number:	MTH 230 Section 101– CRN: 3176 Credit: 4 Hours		
Textbook:	Calculus, Early Transcendental, by Rogawski, Third Edition		
Sections Covered:	6.1-6.5, 7.1-7.3, 7.5-7.7, 7.9, 8.1, 10.1-10.7, 11.1-11.4		
Course	Applications of the integral, techniques of integration, and infinite series. A		
Description:	study of conic sections, polar coordinates, and parametric equations.		
Calculator:	TI-83 or higher, graphing calculators may not be allowed for some problems i		
	exams.		
Prerequisites:	MTH 229 or MTH 229H with "C" or higher or IST 230		
Meeting Time:	MTWRF: 9.00 – 9:50 AM		
Classroom:	Smith Hall 513		
Instructor:	Dr. Basant Karna		
Office:	Smith Hall 715		
Office Hours:	MW: 10:00-11:00, TRF: 11:00-12:00 PM, others by appointment		
Phone/Email:	Phone: (304) 696-4332		
	Email: karna@marshall.edu		
Web:	http://www.science.marshall.edu/karna/		
Course	MATH 230 students will learn various integration techniques. They will learn		
Objectives:	how to use these techniques in applications such as finding the area, volume, and		
	work. Through the study of sequences and series students will learn how to		
	recognize patterns and how to creatively manipulate expressions in order to		
	arrive at familiar patterns. Students will also learn parametric equations and		
	polar coordinates and their applications.		
Course Contents:	- Integrals		
	- Techniques of Integration		
	- Further Applications of Integration		
	- Infinite Sequences and Series		
	- Parametric Equations and Polar Equations		
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Attendance Policy:	Attendance is required and you must come with your text. Attendance will be		
	taken every class day either by sign-in-sheet or by quiz. Having more than 25%		
	absences (excused or unexcused) may result in a course grade of F ! Absences		
	which can be excused include illness, emergencies, or participation in another		
	university activity. Documentation from an outside source must be provided.		
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Grading Policy:	A. Quizzes: Throughout the semester, there will be 12 quizzes given during the		
	last 15 minutes of the class on Fridays. Problems in quizzes will be given from		
	assigned homework problems (textbook will not be allowed). Two lowest		
	quizzes scores will be dropped.		
	B. Exams: There will be 2 exams given in class during the semester.		
	C. Homework Problems: Homework problems will be assigned and collected.		
	D. <i>Final Exam</i> : There will be a two-hour final exam on December 15, 2017.		

Learning	Reasoning: Calculus i	s a collection of reasoning techniques that allows one to		
Outcomes:	understand how changing quantities behave. This understanding is fund			
	to progress in science and engineering. Students will use mathematical			
		y of calculus concepts to verify properties of the concepts		
	they study, and they will use scientific reasoning to determine whether possible solutions are reasonable for a given situation. *Representations: Students will work with information specified in verbal, graphical, tabular, and symbolic forms. Many problems will require students to			
	take information in one of these forms, analyze it, and create a solution in a			
	different form. Students will be required to produce verbal explanations of the meanings of mathematical concepts, both in general and in the context of specific problems.			
	<i>Information literacy:</i> To solve the applied problems in this course, students must determine which information in the problem is relevant to the solution, access			
	this information and u	se it to obtain a mathematical solution, and then translate		
	the mathematical solu	tion back into the language of the original problem.		
Points	Attendance	25 Pts		
Distribution:	Homework(5)	50 Pts		
	Quizzes(10)	100 Pts		
	2 Exams	200 Pts		
	Final Exam	125 Pts		
	Total Pts:	500 Pts		
Grades	The semester grade wi	ll be based on the percentage of the 500 total possible points,		
	using the following sc			
	A: 90 -100 %, B: 80 - 89 %, C: 70 - 79 %, D: 60 - 69 %, F: 0 - 59 % Note: The class score will be posted on MUOnline.			
Make-ups:	A Quizzes: For unavo	pidable missed quizzes with valid documentation, I will		
	give you make up quiz within a week of the original quiz date (two quizzes).			
	B. <i>Exams</i> : Making up a missed exam is possible only if you receive prior			
	permission from me and only for serious and unavoidable circumstances. Make-			
	ups must be taken within a week of the original exam date.			
	C. Final: If you don't take final exam, you will receive an "F" for the class.			
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Exam Dates:	Fyam 1 – Sen 28 Fya	am 2 – Nov 9 (Thursdays)		
Davin Duco.	Exam 1 – Sep 28, Exam 2 – Nov 9 (Thursdays) Quizzes: Q1-A24, Q2-A31, Q3-S7, Q4-S14, Q5-S21, Q6-O5, Q7-O12,			
		1-N16, Q12-N30 (Thursdays)		
		r 15 @ 8:00 AM (Friday)		
Important Datas				
Important Dates:	■ September 4, Monday – Labor Day – No Class			
	October 27, Friday – Last day to drop			
	■November 20, Monday – November 25, Saturday – Thanksgiving Break			
	December 8, Friday -	- Last class day		
Disruptive		e disruptive or distracting for me or another student, you will		
Actions:		r behavior. If you choose to continue, you will be asked to		
	leave. Disruptive behavior may include, but are not limited to the following			
		ing during class, and the use of iPods or MP3 players during		
		t as unexcused absences.		
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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		
	http://www.marshall.edu/academic-affairs/policies/		
	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		
Disable Students:	The Disabled Student Services web site is now available. You may visit it at		
	http://www.marshall.edu/disabled.		
Coming Late:	Students should come on time and stay in the class for entire class. If you are late		
	by more than 5 minutes, you will be considered to be absent.		

Homework Problems

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----- HW 1 -----
Section 6.1: 1, 3, 6, 8, 9, 10, 13, 14, 15, 17, 18, 31, 39, 43
Section 6.2: 1, 2, 9, 11, 13, 39, 41, 59, 60
Section 6.3: 1, 3, 5, 8, 11, 13, 14, 15, 17, 21, 23, 27, 29, 31, 33, 39, 41, 45, 51
Section 6.4: 1, 3, 7, 8, 9, 15, 16, 21, 23
------ HW 2 -----
Section 7.1: 1, 2, 3, 5, 7, 11, 13, 15, 17, 19, 23, 27, 35, 38, 43, 44, 49, 50
Section 7.2: 1, 2, 3, 5, 9, 11, 13, 15, 17, 21, 23, 26, 28, 35, 37, 39, 45, 51, 56, 59
Section 7.3: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 25, 31, 37, 40
------ HW 3 -----
Section 7.5: 1, 2, 3, 5, 7, 9, 12, 13, 15, 17, 18, 19, 24, 28, 37, 41, 43
Section 7.6: 1-10, 11, 12, 13, 14, 17, 21, 26, 29, 31, 37, 43, 51
Section 7.7: 1, 2, 3, 4, 5, 7, 11, 13, 19, 20, 25, 31, 33, 35, 37, 45, 47, 61, 63, 67
Section 7.9: 1, 3, 5, 9, 13, 17
----- HW 4 -----
Section 8.1: 1, 3, 5, 9, 17, 35, 37, 39, 41
Section 10.1: 1, 2, 3, 5, 7, 10, 13, 14, 15, 29(ODDS), 35-61(ODDS), 63, 65, 67
Section 10.2: 1, 2, 3, 5, 6, 17, 18, 19, 20, 21, 23-36(ODDS)
Section 10.3: 1-78(ODDS)
Section 10.4: 1, 2, 3, 4, 7, 15, 17-32(ODDS)
------ HW 5 -----
Section 10.5: 1-21 (ODDS), 27, 36-62 (ODDS)
Section 10.6: 3-41 (ODDS)
Section 10.7: 3, 5, 6, 7, 8, 9, 12, 15, 19, 20, 21, 25, 27, 29, 30, 32, 33, 34, 37
------ HW 6 ------ Optional ------
Section 11.1: 1, 5, 6, 7, 9, 11, 15, 19, 23, 25, 27, 29, 31, 36, 39, 49, 51, 55, 57, 85, 87
Section 11.2: 1, 3, 5, 7, 9, 16
Section 11.3: 1, 3, 5, 6, 7, 11, 13, 17, 19, 23, 26
Section 11.4: 1, 3, 5, 6, 7, 8, 10, 11, 13, 14, 25, 28
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Turn in at least boldface problems.

Due dates are Mondays after the Sections are covered.