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Course Title:	Calculus/Analytic Geometry I (CT)
Course Number:	MTH 229 Section 102 CRN 3171 Credit: 5 Hours
Textbook:	Calculus, Early Transcendental by Stewart, Eighth Edition
Sections Covered:	1.1-1.5, 2.1-2.3, 2.4, 2.5-2.8, 3.1-3.10, 4.1-4.9, 5.1-5.5
Course	An introduction to analytic geometry. Limits, derivatives, and integrals of the
Description:	elementaryfunctions, functions of one variable, including the transcendental
	functions.
Calculator:	TI-83 or higher, graphing calculators may not be allowed for some problems in
	exams.
Core Credits	This course fulfills a Core I CT requirement (Mathematical & Abstract Thinking,
	Information and Technical Literacy, and Oral, Written, and Visual
	Communication) and a Core II Math requirement.
Prerequisites:	ACT Math 27 or SAT Math 610 or MTH 132 "C" or higher
Meeting Time:	MTWRF: 12:00 – 12:50 PM
Classroom:	SH 513
Instructor:	Dr. Basant Karna
	Smith Hall 715
Office:	
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
Webpage:	http://www.science.marshall.edu/karna/
Course Goals	1. To give students an understanding of the fundamental concepts of calculus
	and an appreciation of its many applications.
	2. To develop critical thinking skills by asking students to convert real-world
	problems into forms suitable for calculus, and interpret the results of calculus in
	real-world problems.
	3. To provide students with a deeper understanding of the mathematics that is
	used in their science and engineering courses.
	4. To develop facility in using graphing calculators to solve mathematics
	problems.
	5. To satisfy program requirements.
Course	1. Students should be able to evaluate limits, derivatives, and integrals
Objectives:	symbolically.
Objectives.	2. Students should be able to approximate limits, derivatives, and definite
	integrals from tabular and graphical data.
	3. Students should be familiar with the definitions of limits, derivatives, and
	integrals; be able to apply these definitions to test properties of these concepts;
	and be able to produce verbal arguments and examples showing that basic
	properties hold or do not hold.
	4. Students should be able to apply the techniques of calculus to answer
	questions about the analytic geometry of functions, including vertical and
	horizontal asymptotes, tangent lines, local extrema, and global extrema.
	5. Students should be able to verbally explain the meaning of limits, derivatives,
	and integrals in their own words, both in general terms and in the context of
	specific problems.
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Course Student Lear	ning Outcomes	How student achievement of
		each outcome will be assessed
	understanding of the fundamental concepts of	Homework, Board work,
	eciation of its many applications.	Quizzes, exams and final
	king skills by asking students to convert real-	Homework, Board work,
	forms suitable for calculus, and interpret the	Quizzes, exams and final
results of calculus in	*	
A deeper understandi	ng of the mathematics that is used in their	Homework, Board work,
science and engineer		Quizzes, exams and final
Students will develop	o facility in using graphing calculators to solve	Homework, Board work,
mathematics problem	IS.	Quizzes, exams and final
Reasoning: Calculus	is a collection of reasoning techniques that	Homework, Board work,
allows one to underst	and how changing quantities behave. This	Quizzes, exams and final
	lamental to progress in science and	
	s will use mathematical reasoning in their	
	cepts to verify properties of the concepts they	
	ise scientific reasoning to determine whether	
	reasonable for a given situation.	
•	dents will work with information specified in	Homework, Board work,
-	ular, and symbolic forms. Many problems will	Quizzes, exams and final
U	ke information in one of these forms, analyze	
	on in a different form. Students will be	
· ·	rerbal explanations of the meanings of	
	ts, both in general and in the context of	
specific problems.	,	
	To solve the applied problems in this course,	Homework, Board work,
	ine which information in the problem is	Quizzes, exams and final
	on, access this information and use it to obtain	Quizzes, exams and inter
	on, and then translate the mathematical	
	e language of the original problem.	
solution back into the		I
	- Review of college algebra	
	- Limits of functions of one variables	
Course Contents:	- Derivatives of functions of one variable	
course contents.	- Applications of Derivatives	
	- Integrals of functions of one variables	
Attendance Policy:	Attendance is required and you must come wit	h your text Attendance will be
Attenuance I oney.	taken every class day either by sign-in-sheet or	
	absences may result in a course grade of \mathbf{F} ! At	• •
	include illness, emergencies, or participation in	
	Excused absences must be approved by the off	
	Excused absences must be approved by the off	nee of the deall of students.
Grading Policy:	A. Quizzes: Throughout the semester, there wi	Il be 12 quizzes given during the
Graung rolley:	last 15 minutes of the class on Fridays. Problem	
	assigned homework problems (textbook will n	or be allowed). I wo lowest
	quizzes scores will be dropped.	a during the corrector
	B. <i>Exams</i> : There will be 3 exams given in clas	-
	C. <i>Homework Problems</i> :Homework problems	
	You are responsible for reading the text, worki	
	hours for help when you're stuck, and being av	ware of the dates for the major
	exams.	
	D. <i>Final Exam</i> : There will be a two-hour final	exam on December 15, 2017.

PointsAttendance25 PtsDistribution:5 Homework Assignments50 PtsQuizzes(10)100 Pts3 Exams300 PtsFinal Exam125 PtsTotal Pts:GradesThe semester grade will be based on the percentage of the 600 total possible poin using the following scale. 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 unavoidable 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. Mak ups must be taken within a week of the original exam date. C. <i>Final</i> : If you don't take final exam, you will receive an "F" for the class.Exam DatesExam 1 - Sep 22, Exam 2 - Oct 20, Exam 3 - Nov 17 (Fridays) Quizzes: Q1-A25, Q2-S1, Q3-S8, Q4-S15, Q5-S29, Q6-O6, Q7-O13, Q8-O27, Q9-N3, Q10-N10, Q11-D1, Q12-D8 (Fridays) Final Exam: December 15 @ 10:15 AM(Friday)Important Dates:•August 28, Monday – "W" Withdrawal period begins • September 4, Monday – Labor Day – No Class
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 October 27, Friday – Last day to drop
November 20, Monday – November 25, Saturday – Thanksgiving Break
December 8, Friday – Last class day
Disruptive If your actions become disruptive or distracting for me or another student, you w
Actions: be asked to cease your behavior. If you choose to continue, you will be asked
leave. Disruptive behavior may include, but are not limited to the following: co
phone use in class, talking during class, and the use of iPods or MP3 players duri
class. These will count as unexcused absences.
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/ Computin 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
Free Tutoring: Free tutoring in Smith Music Hall 115 (10:00-4:00 PM Monday to Thursday and
10:00 to Noon on Friday) and in Smith Hall 620 (5:00 PM-6:30 PM Monday to
Thursday).
Disable Students: The Disabled Student Services web site is now available. You may visit it at
http://www.marshall.edu/disabled . Students seeking special accommodations
need to follow the university policy detailed at this web site. It is their
responsibility to initiate the process for receiving accommodations based upon
their disability. If you have any questions or comments, please contact Sandra
Clements, the Director of Disabled Student Services.
Coming Late: Students should come on time and stay in the class for entire class. If you are la
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by more than 5 minutes, you will be considered to be absent.

Homework Problems

------ HW 1 ------Section 1.1: 1, 2, 3, 4, 7-10, 25, 27, 28, 33, 36, 37, 40, 41, 44, 45, 49, 51, 55, 57, 59, 63, 73, 74, 78 Section 1.2: 1, 2, 3, 10, 11, 17, 21, 22 Section 1.3: 1, 3, 4, 11, 12, 17, 31, 33, 35, 37, 39, 43, 44, 53 Section 1.4: 3, 4, 7, 9, 11, 13, 17, 18, 19, 21 Section 1.5: 5, 6, 7, 9, 11, 15, 18, 22, 35, 37, 39, 51, 53, 63, 64 Section 2.1: 1, 3, 5, 8 Section 2.2: 1, 4, 6, 9, 11, 15, 17, 19, 21, 25, 26, 31, 32, 33, 41 Section 2.3: 1, 2, 3, 5, 11, 12, 13, 14, 16, 17, 18, 20, 21, 23, 27, 31, 38, 41, 44 Section 2.5: 3, 4, 5, 7, 11, 17, 19, 20, 22, 25, 35, 39, 41, 45 Section 2.6: 3, 4, 5, 7, 9, 10, 11, 13, 15, 17, 19, 23, 25, 27, 29, 37, 39, 47, 49, 51 Section 2.7: 1, 3(a,b), 5, 6, 7, 9, 13, 17, 20, 21, 23, 24, 25, 27, 31, 33, 35, 37, 39, 59, 60 Section 2.8: 1, 3, 4, 5, 7, 9, 10, 16, 21, 25, 26, 29, 41 - 44, 47 ------ HW 2 ------Section 3.1: 3, 5, 8, 11, 13, 17, 23, 29, 33, 35, 37, 39, 41, 47, 51, 55, 58, 61 Section 3.2: 3, 5, 6, 7, 9, 13, 17, 21, 23, 27, 29, 31, 33, 41-45, 49, 51 Section 3.3: 1, 2, 5, 10, 13, 15, 16, 21, 22, 25, 39 - 50 Section 3.4: 1,2,4,6,7,9,11,13,17,19,21,22,25,28,29,30,32,33,35,37,38,39,40,41,45,50, 53,54,61,71 Section 3.5: 1, 2, 3, 5, 7, 9, 10, 12, 13, 15, 17, 18, 19, 21, 23, 24, 27, 30, 35, 37, 49, 51, 53, 55, 60 ------ HW 3 -----Section 3.6: 2, 3, 4, 7, 8, 9, 11, 14, 15, 19, 21, 23, 25, 28, 29, 31, 33, 39, 41, 43-48, 51 Section 3.7: 1, 2, 5, 6, 7, 8, 10, 16(b), 23(a) Section 3.8: 1, 3, 4, 9, 13 (optional) Section 3.9: 2, 3, 4, 5, 6, 7, 10, 13-16, 17, 18, 19, 23, 30, 31, 33, 41 Section 3.10: 1, 3, 11, 13, 17, 18, 19, 21, 23, 25, 27 ------ HW 4 ------Section 4.9: 1, 3, 5, 7, 11, 13, 19, 21, 23, 25, 26, 27, 29, 32, 35, 39, 41, 43, 48, 51, 59, 61, 64 Section 5.1: 2, 3, 5, 21, 23, 24 Section 5.2: 1, 4, 9, 17, 18, 21, 23, 33, 34, 35, 51, 52, 53, 60 Section 5.3: 3, 7, 9, 11, 12, 13, 15, 19, 23, 25, 27, 29, 32, 37, 38, 53, 73 Section 5.4: 1, 3, 5, 7, 9, 13, 15, 18, 21, 23, 25, 27, 32, 36, 37, 38 Section 5.5: 1, 3, 5, 7, 9, 12, 13, 15, 18, 21, 23, 25, 30, 32, 35, 38, 39, 42, 45, 57, 59, 67, 69 ------ HW 5 -----Section 4.1: 3-6, 7, 9, 11, 14, 15, 19, 29, 30, 31, 33, 38, 43, 47, 49, 50, 53, 57, 61 Section 4.2: 1, 3, 5, 6, 9, 11, 12, 13, 17 Section 4.3: 1, 2, 5, 8, 9 - 14, 19, 20, 22, 25, 26, 27, 30, 31, 32, 35, 36, 37, 39, 41, 45, 47 Section 4.4: 1, 3, 5, 8, 9, 12, 13, 15, 17, 18, 20, 22, 23, 27, 30, 31, 46, 51, 53, 57 Section 4.5: 1, 2, 3, 4, 5, 6, 9, 11, 13, 18, 27, 37, 45, 49 Section 4.7: 2, 3, 4, 7, 8, 11, 12, 13, 14, 15, 16, 17, 21, 37

Turn in at least boldface problems. Due dates are Mondays after the Sections are covered.

Exam Schedule with Sections

Exam 1 (September 22-Friday), will cover the sections(tentative) Sections 1.1, 1.2, 1.3, 1.4, 1.5, 2.1, 2.2, 2.3, 2.5, 2.6, 2.7, 2.8 Exam 2 (October 20-Friday), will cover the sections(tentative) Sections 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10 Exam 3 (November 17-Friday), will cover the sections(tentative) Sections 4.9, 5.3, 5.4, 5.5, 4.1, 4.2, 4.3, 4.4, 4.5 Final (December 15-Friday) @ 10:15AM in Room SH 513, will cover the sections (tentative) Sections 2.2, 2.6, 2.9, 3.4, 3.5, 3.6, 3.8, 4.5, 4.6, 4.7, 4.9, 5.4, 5.5