Marshall University MTH 329

Course Title/Number	Elementary Linear Algebra				
	MTH 329 - Section 201 - CRN 4146 - Credits 3				
Semester/Year	Spring 2017				
Days/Time	MW 3:00 pm - 4:15 pm				
Location	Smith Hall 509				
Instructor	Dr. JiYoon Jung				
Office	Smith Hall 742D				
Phone	(304) 696-3285				
E-Mail	jungj@marshall.edu				
Office Hours	12:45 - 02:00 pm on Mon Tue Wed Thu				
	or by appointment				
	I am always happy to answer questions or talk about the course material any				
	time. Just send me an email or stop by my office, Smith Hall 742D.				
Tutoring Services	In addition to office hours, there are three free tutoring options for students in				
	Math 329.				
	The math tutoring lab will be open this semester during the following hours:				
	- Smith Music 115: Monday-Thursday 10am-4pm, Friday 10am-12noon				
	- Smith Hall 620: Monday-Thursday 5:00pm-6:30pm				
	http://www.marshall.edu/math/tutoringlab.asp.				
	The University College offers appointment-based tutoring in in the				
	Communications Building. Please consult their web page for additional				
	information.				
	http://www.marshall.edu/math/tutoringlab.asp.				
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				
	www.marshall.edu/academic-affairs and clicking on "Marshall University				
	Policies." Or, you can access the policies directly by going to				
	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 Dismissal/Academic Forgiveness/Academic Probation and				
	Suspension/Academic Rights and Responsibilities of Students/Affirmative				
	Action/Sexual Harassment				

Course Description: From Catalog

Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, and applications.

PR: ACT Math 27, or SAT Mathematics (before Mar. 16) 610, or SAT MATH SECTION SCORE 630, or IST131, or (MTH122 and MTH127), or (MTH122 and MTH130), or MTH132, or MTH229

Required Texts, Additional Reading, and Other Materials

- Linear Algebra with Applications (Second Printing) by Jefferey Holt (ISBN: 9780716786672)

- You should bring your calculator, paper, and a pen or pencil to every class meeting.
- Students are required to have a scientific or graphing calculator during the course.
- You must have internet access at your residence. Check your official MU email account daily.

MU Online: It is important to visit MU Online regularly for up-to-date information about the course. It hosts all the course materials including announcements, handouts, assignments, and reading materials. Although I will make my best effort to announce everything in class, it is your responsibility to keep up to date with assignments on MU Online.

Attendance Policy

Students are expected to attend each class. **Every three unexcused absences will be subject to a full letter downgrade until a student reaches an "F".** There will be no credit for the daily quiz you missed unless you have an excused absence. To obtain an excused absence, please go to the Dean of Students' Office in the MSC. **Students must notify the instructor by phone or e-mail prior to an exam if they cannot take a scheduled exam.** Students must present a serious reason for missing any exam. Makeup exams will be given to students outside of class time at the convenience of the instructor.

Course policies

Cheating or plagiarism is a serious offense and will not be tolerated. It will be thoroughly investigated, and might lead to failure in the course or even to expulsion from the university. **If you are late to class**, if you leave class early, if you are disruptive, if you are sleeping, reading the newspaper, working on other homework, **surfing the internet** or for any other reason are not actively engaged in activities related to math class, **you will not receive credit for participating in class that day.** I expect that you will not only attend class, but that you will participate in class. If you do not respect yourself, other students, or the instructor during class, you may be asked to leave class.

Objectives of Course: The table below shows the following relationships: How each student learning outcome will be practiced and assessed in the course.

Course student learning	How students will practice each	How student achievement of	
outcomes	outcome in this course	each outcome will be assessed	
		in this course	
use linear systems to model a	Discussions, group work, board	In Class Exam based on Quizzes	
range of problems and interpret	work, low-stakes writing,		
the implications of the choice of	homework, in-class exercises,		
solution strategies	and chapter reviews		
solve systems of equations by	Discussions, group work, board	In Class Exam based on Quizzes	
hand and through the use of	work, low-stakes writing,		
technology	homework, in-class exercises,		
	and chapter reviews		
work with matrices to organize	Discussions, group work, board	In Class Exam based on Quizzes	
data, solve linear systems, and	work, low-stakes writing,		
apply results to applications and	homework, in-class exercises,		
linear transformations	and chapter reviews		
manipulate vectors, both	Discussions, group work, board	In Class Exam based on Quizzes	
graphically and algebraically in	work, low-stakes writing,		
order to address applications in	homework, in-class exercises,		
areas like geometry, physics, and	and chapter reviews		
engineering			
develop the concepts of	Discussions, group work, board	In Class Exam based on Quizzes	
spanning sets and linear	work, low-stakes writing,		
independence	homework, in-class exercises,		
	and chapter reviews		
determine eigenvalues and	Discussions, group work, board	In Class Exam based on Quizzes	
eigenvectors	work, low-stakes writing,		
	homework, in-class exercises,		
	and chapter reviews		
understand the basic concept of	Discussions, group work, board	In Class Exam based on Quizzes	
orthogonality in higher	work, low-stakes writing,		
dimensions	homework, in-class exercises,		
	and chapter reviews		
communicate conclusions and	Discussions, group work, board	In Class Exam based on Quizzes	
connections using appropriate	work, low-stakes writing,		
notation and vocabulary	homework, in-class exercises,		
	and chapter reviews		

Course Schedule/Course Requirements/Due Dates

January 09 – February 10:				
I. Solving systems of linear equations, II. Matrices, III. Determinants, IV. Euclidean Space				
February 13– March 17:				
IV. Euclidean Space, V. Subspaces, VI. Vector Spaces, VII. Linear Transformations				
March 20– March 25:				
Spring Break – Classes dismissed				
March 27– April 28:				
VII. Linear Transformations, VIII. Eigenvalues and Eigenvectors, IX. Orthogonality, X. Applications				
- Exam 1 on Monday, January 30, 2016 from 03:00 until 04:00 pm				
- Exam 2 on Monday, February 20, 2016 from 03:00 until 04:00 pm				
- Exam 3 on Monday, March 13, 2016 from 03:00 until 04:00 pm				
- Exam 4 on Monday, April 10, 2016 from 03:00 until 04:00 pm				
- Final on Monday, May 01, 2016 from 03:00 until 04:00 pm				

Grading Policy

You will be able to obtain a maximum of 500 points in this class, divided as follows:

- Exams (400 points): There will be four in-class exams and one final exam (80 each). These exams will focus on the topics discussed in class and in the homework. **Homework will be assigned on MU Online after each lecture session.** You can bring questions about homework problems to class, office hours, or the tutoring lab. **The Final exam will be comprehensive.**

- Participation Quizzes (100 points): There will be five participation Quizzes (20 each). These daily quizzes will focus on the topics discussed in class. You will be graded on a credit / no-credit basis, with credit for completing the quiz with a reasonable effort.

- The **total number of points you earn** will be divided by the **total number of points possible** to determine your final percentage. At the end of the semester, your overall letter grade will be assigned on the following scale:

A: 90 – 100%	B: 80 – 89%	C: 70 – 79%	D: 60 – 69%	F: Below 60%
71.50 100/0	D.00 05/0	0.70 7570	D .00 05/0	1. Delow 00/0