AME 526

Introduction to Mathematical Methods in Engineering II Summer 2020 (May 20 – June 30) T, Th 9:00 am - 11:50 am

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Teaching Assistant:	Steven Luna E-mail Office Hours:	lunastev@usc.edu Anytime by appointment	

Recommended Text: Peter V. O'Neil, "Advanced Engineering Mathematics", 8th edition, Cengage Learning, May 2017, ISBN: 978-1-305-63515-9

<u>Lectures</u>	<u>T</u>	<u>OPICS</u>			
5/21	Ordinary Differential Equations (Chapter 1)				
5/26-5/28	O	Ordinary Differential Equations, Laplace Transform (Chapters 1, 2)			
6/2-6/4	La	Laplace Transform, Series Solutions (Chapters 3, 4)			
6/9-6/11	Fo	Fourier Series, Fourier Integral and Transforms (Chapters 13, 14)			
6/16-6/18	Pa	Partial Differential Equations (Chapters 16, 17, 18)			
6/23-6/25	Pa	Partial Differential Equations, Separation of Variables,			
	Si	Similarity Solutions, Transform Methods (Chapter 16, 17, 18)			
Grading:	ing: Homework Assignments			30%	
C	Midterm Exam	June 9 (T)	(10:30 am - 11:50 am)	30%	
	Final Exam	June 30 (T)	(9:00 am - 11:00 am)	40%	

Remarks:

- 1. The students are required to attend lectures, which will be based on both the textbook and notes.
- 2. There will be four (4) homework assignments.