

**MA 16020 Applied Calculus II – Distance/online Learning Course**  
**ON CAMPUS VERSION, section 999**  
**Calendar – Syllabus(Part I), Spring 2021**

**Exam Coverage --- Exam 1: Lessons R-5, Exam 2: Lessons 6-13, Exam 3: Lessons 13-23, Exam 4: Lessons 23-32**

SAME number of lessons, SAME homework assignments, SAME exams as traditional sections of the course. Just a different course structure, no class meetings other than exams, Quizzes will be different, must independently use video lectures in LON-CAPA, and use other learning resources.

**Note: Must be a self-motivated, proactive, and reasonably strong mathematics student.**

**This Calendar - Syllabus(Part I) will be emended and updated as needed during the semester.**

Date	Lesson	Quiz #	Assignment/Topics
1/18 M			<i>MARTIN LUTHER KING JR. DAY – NO CLASSES</i>
1/20 W	R		Review of Basic Integration
1/22 F	1A		Integration By Substitution
1/25 M	1B		Integration By Substitution
1/27 W	2		Integration By Substitution
1/29 F	3		The Natural Logarithmic Function: Integration
2/1 M	4		Integration by Parts
2/3 W	5		Integration by Parts
2/5 F	6		Diff. Equations: Solutions, Growth and Decay & Separation of Variables
<b>*2/8 M</b>	<b>*****</b>		<b>EXAM 1 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
2/8 M			<b>NO CLASSES</b>
2/10 W	7		Diff. Equations: Separation of Variables
2/12 F	8		Diff. Equations: Separation of Variables
2/15 M	9		First-Order Linear Differential Equations
2/17 W			<b>READING DAY -- NO CLASSES</b>
2/19 F	10		First-Order Linear Differential Equations
2/22 M	11		Area of a Region Between two curves
2/24 W	12		Volume of Solids of Revolution
2/26 F	13		Volume of Solids of Revolution
3/1 M	14		Volume of Solids of Revolution
<b>*3/3 W</b>	<b>*****</b>		<b>EXAM 2 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
3/3 W			<b>NO CLASSES</b>
3/5 F	15		Improper Integrals
3/8 M	16		Geometric Series and Convergence
3/10 W	17		Geometric Series and Convergence
3/12 F	18		Functions of Several Variables Intro
3/15 M	19		Partial Derivatives
3/17 W	20		Partial Derivatives
3/19 F	21		Differentials of Multivariable Functions

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3/22 M	22		Chain Rule, Functions of Several Variables
3/24 W	23		Extrema of Functions of Two Variables
3/26 F	24		Extrema of Functions of Two Variables
<b>*3/29 M</b>	<b>*****</b>		<b>EXAM 3 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
3/29 M			<b>NO CLASSES</b>
3/31 W	25		LaGrange Multipliers - Constrained Min/Max
4/2 F	26		LaGrange Multipliers - Constrained Min/Max
4/5 M	27		Double Integrals, Volume, Applications
4/7 W	28		Double Integrals, Volume, Applications
4/9 F	29		Double Integrals, Volume, Applications
4/12 M	30		Systems of Equations, Matrices, Gaussian Elimination
4/14 M	31		Gauss-Jordan Elimination
4/16 F	32		Matrix Operations
4/19 M	33		Inverses and Determinants of Matrices
<b>*4/21 W</b>	<b>*****</b>		<b>EXAM 4 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
4/21 W			<b>NO CLASSES</b>
4/23 F	34		Inverses and Determinants of Matrices
4/26 M	35		Eigenvalues and Eigenvectors
4/28 W	36		Eigenvalues and Eigenvectors
4/30 F			REVIEW FOR FINAL EXAM
<b>5/3 to 5/8</b>			<b>WEEK OF FINAL EXAMS– Final Exam is Friday May 7 – 7:00PM</b>

**\*\* SPECIAL NOTE: THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 8 AT 9:00 PM.**  
 INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY  
 FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.