

# MA 16020 Applied Calculus II

## Calendar – Syllabus(Part I), Fall 2020

Exam Coverage --- Exam 1: Lessons R-6, Exam 2: Lessons 6-15, Exam 3: Lessons 16-23, Exam 4: Lessons 23-31

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

Date	Lesson	Quiz #	Assignment/Topics
8/24 M	R		Review of Basic Integration
8/26 W	1A		Integration By Substitution
8/28 F	1B		Integration By Substitution
8/31 M	2		Integration By Substitution
9/2 W	3		The Natural Logarithmic Function: Integration
9/4 F	4		Integration by Parts
9/7 M	5		Integration by Parts
9/9 W	6		Diff. Equations: Solutions, Growth and Decay & Separation of Variables
9/11 F	7		Diff. Equations: Separation of Variables
<b>*9/14 M</b>	<b>*****</b>		<b>EXAM 1 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
9/14 M			<b>NO CLASSES</b>
9/16 W	8		Diff. Equations: Separation of Variables
9/18 F	9		First-Order Linear Differential Equations
9/21 M	10		First-Order Linear Differential Equations
9/23 W	11		Area of a Region Between two curves
9/25 F	12		Volume of Solids of Revolution
9/28 M	13		Volume of Solids of Revolution
9/30 W	14		Volume of Solids of Revolution
10/2 F	15		Improper Integrals
10/5 M	16		Geometric Series and Convergence
<b>*10/7 W</b>	<b>*****</b>		<b>EXAM 2 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
10/7 W			<b>NO CLASSES</b>
10/9 F	17		Geometric Series and Convergence
10/12 M	18		Functions of Several Variables Intro
10/14 W	19		Partial Derivatives
10/16 F	20		Partial Derivatives
10/19 M	21		Differentials of Multivariable Functions
10/21 W	22		Chain Rule, Functions of Several Variables
10/23 F	23		Extrema of Functions of Two Variables
10/26 M	24		Extrema of Functions of Two Variables
<b>*10/28 W</b>	<b>*****</b>		<b>EXAM 3 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
10/28 W			<b>NO CLASSES</b>
10/30 F	25		LaGrange Multipliers - Constrained Min/Max

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11/2 M	26		LaGrange Multipliers - Constrained Min/Max
11/4 W	27		Double Integrals, Volume, Applications
11/6 F	28		Double Integrals, Volume, Applications
11/9 M	29		Double Integrals, Volume, Applications
11/11 W	30		Systems of Equations, Matrices, Gaussian Elimination
11/13 F	31		Gauss-Jordan Elimination
11/16 M	32		Matrix Operations
<b>*11/18 W</b>	<b>*****</b>		<b>EXAM 4 – Time: 8:00PM – 60 minute exam – Location: TBA</b>
11/18 W			<b>NO CLASSES</b>
11/20 F	33		Inverses and Determinants of Matrices
11/23 M	34		Inverses and Determinants of Matrices
<b>*****</b>	<b>*****</b>		<b>NO MORE ON CAMPUS CLASSES</b>
11/25 W			<i>THANKSGIVING BREAK VACATION – NO CLASSES</i>
11/27 F			<i>THANKSGIVING BREAK VACATION – NO CLASSES</i>
11/30 M	35		Eigenvalues and Eigenvectors – Learning done Online
12/2 W	36		Eigenvalues and Eigenvectors – Learning done Online
12/4 F			FINAL Quiz(zes)
<b>12/7 to 12/12</b>			<b>WEEK OF FINAL Quiz(zes)</b>

**\*\*SPECIAL NOTE: THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 12 AT 9:00 PM.**