

# MA 16020 Applied Calculus II– Distance/online course structure

## Calendar – Syllabus(Part I), Fall 2021

**Exam Coverage -- Exam 1: Lessons R-8, Exam 2: Lessons 9-21, Exam 3: Lessons 21-31**

SAME number of lessons, SAME homework assignments, SAME exams as IMPACT/Hybrid & Traditional sections of the course. Just a different course structure - no class meetings other than exams, Quizzes will be online, 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
8/23 M	R		Review of Basic Integration
8/25 W	1A		Integration By Substitution
8/27 F	1B		Integration By Substitution
8/30 M	2		Integration By Substitution
9/1 W	3		The Natural Logarithmic Function: Integration
9/3 F	4		Integration by Parts
9/6 M			<i>LABOR DAY – NO CLASSES</i>
9/8 W	5		Integration by Parts
9/10 F	6		Diff. Equations: Solutions, Growth and Decay & Separation of Variables
9/13 M	7		Diff. Equations: Separation of Variables
9/15 W	8		Diff. Equations: Separation of Variables
9/17 F	9		First-Order Linear Differential Equations
<b>*9/20 M</b>	<b>*****</b>		<b>EXAM 1 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
<b>9/20 M</b>			<b>NO CLASSES</b>
9/22 W	10		First-Order Linear Differential Equations
9/24 F	11		Area of a Region Between two curves
9/27 M	12		Volume of Solids of Revolution
9/29 W	13		Volume of Solids of Revolution
10/1 F	14		Volume of Solids of Revolution
10/4 M	15		Improper Integrals
10/6 W	16		Geometric Series and Convergence
10/8 F	17		Geometric Series and Convergence
10/11 M			<i>OCTOBER BREAK – NO CLASSES</i>
10/13 W	18		Functions of Several Variables Intro
10/15 F	19		Partial Derivatives
10/18 M	20		Partial Derivatives
10/20 W	21		Differentials of Multivariable Functions
10/22 F	22		Chain Rule, Functions of Several Variables
<b>*10/25 M</b>	<b>*****</b>		<b>EXAM 2 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
<b>10/25 M</b>			<b>NO CLASSES</b>

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Date	Lesson	Quiz #	Assignment/Topics
*10/25 M	*****		<b>EXAM 2 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
10/25 M			<b>NO CLASSES</b>
10/27 W	23		Extrema of Functions of Two Variables
10/29 F	24		Extrema of Functions of Two Variables
11/1 M	25		LaGrange Multipliers - Constrained Min/Max
11/3 W	26		LaGrange Multipliers - Constrained Min/Max
11/5 F	27		Double Integrals, Volume, Applications
11/8 M	28		Double Integrals, Volume, Applications
11/10 W	29		Double Integrals, Volume, Applications
11/12 F	30		Systems of Equations, Matrices, Gaussian Elimination
11/15 M	31		Gauss-Jordan Elimination
11/17 W	32		Matrix Operations
*11/18 Th	*****		<b>EXAM 3 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
11/19 F			<b>NO CLASSES</b>
11/22 M			<b>NO CLASSES</b>
11/24 W			<i>THANKSGIVING BREAK VACATION – NO CLASSES</i>
11/26 F			<i>THANKSGIVING BREAK VACATION – NO CLASSES</i>
11/29 M	33		Inverses and Determinants of Matrices
12/1 M	34		Inverses and Determinants of Matrices
12/3 F	35		Eigenvalues and Eigenvectors
12/6 M	36		Eigenvalues and Eigenvectors
12/8 W			REVIEW FOR FINAL EXAM
12/10 F			REVIEW FOR FINAL EXAM
12/13 to 12/18			<b>WEEK OF FINAL EXAMS – Final Exam - ??day, December ?? – ??:??</b>

**\*\* SPECIAL NOTE: THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 18 AT 9:00 PM.**

\*\* Individuals wanting to leave campus early **WILL NOT** be granted early Final Exams to accommodate travel plans.

\*\* The date and time of the final exam will be announced during the semester.