

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

## Calendar – Syllabus(Part I), Spring 2022

**Exam Coverage – Exam 1: Lessons R1-6, Exam 2: Lessons 7-19, Exam 3: Lessons 19-30**

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 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
1/10 M	R1		Review of Basic Differentiation
1/12 W	R2		Review of Basic Integration
1/14 F	1A		Integration By Substitution
1/17 M			<i>MLK DAY – NO CLASSES</i>
1/19 W	1B		Integration By Substitution
1/21 F	2		Integration By Substitution
1/24 M	3		The Natural Logarithmic Function: Integration
1/26 W	4		Integration by Parts
1/28 F	5		Integration by Parts
1/31 M	6		Diff. Equations: Solutions, Growth and Decay & Separation of Variables
2/2 W	7		Diff. Equations: Separation of Variables
2/4 F			<b>NO CLASSES</b>
2/7 M	8		Diff. Equations: Separation of Variables
2/9 W	9		First-Order Linear Differential Equations
2/11 F	10		First-Order Linear Differential Equations
<b>*2/14 M</b>	<b>*****</b>		<b>EXAM 1 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
2/16 W	11		Area of a Region Between two curves
2/18 F	12		Volume of Solids of Revolution
2/21 M	13		Volume of Solids of Revolution
2/23 W	14		Volume of Solids of Revolution
2/25 F	15		Improper Integrals
2/28 M	16		Geometric Series and Convergence
3/1 W	17		Geometric Series and Convergence
3/3 F	18		Functions of Several Variables Intro
3/7 M	19		Partial Derivatives
3/9 W	20		Partial Derivatives
<b>*3/10 Th</b>	<b>*****</b>		<b>EXAM 2 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
3/11 F			<b>NO CLASSES</b>
3/12 to	3/18		<b>SPRING BREAK – NO CLASSES</b>

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3/21 M	21		Differentials of Multivariable Functions
3/23 W	22		Chain Rule, Functions of Several Variables
3/25 F	23		Extrema of Functions of Two Variables
3/28 M	24		Extrema of Functions of Two Variables
3/30 W	25		LaGrange Multipliers - Constrained Min/Max
4/1 F	26		LaGrange Multipliers - Constrained Min/Max
4/4 M	27		Double Integrals, Volume, Applications
4/6 W	28		Double Integrals, Volume, Applications
4/8 F	29		Double Integrals, Volume, Applications
4/11 M	30		Systems of Equations, Matrices, Gaussian Elimination
4/13 W	31		Gauss-Jordan Elimination
*4/14 Th	*****		<b>EXAM 3 – Time: 8:00PM – 90 minute exam – Exam Room: TBA</b>
4/15 F			<b>NO CLASSES</b>
4/18 M	32		Matrix Operations
4/20 M	33		Inverses and Determinants of Matrices
4/22 F	34		Inverses and Determinants of Matrices
4/25 M	35		Eigenvalues and Eigenvectors
4/27 W	36		Eigenvalues and Eigenvectors
4/29 F			REVIEW FOR FINAL EXAM
<b>5/2 to 5/7</b>			<b>WEEK OF FINAL EXAM – Final Exam - Wednesday, May 4 – 8:00 AM</b>

**\*\* SPECIAL NOTE: THE SEMESTER DOES NOT END UNTIL SATURDAY, MAY 7 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.**