

# MA 16020 Applied Calculus II

## Calendar – Syllabus(Part I), Spring 2016

**EXAM 1: Lessons 1-7, Exam 2: Lessons 6-12, Exam 3: Lessons 11-17**  
**EXAM 4: Lessons 16-22, Exam 5: Lessons 21-27, Exam 6: Lessons 26-32**

Date	Lesson #	Quiz #	Assignment/Topics
1/11 M	1		Integration By Substitution
1/13 W	2		Integration By Substitution
1/15 F	3		The Natural Logarithmic Function: Integration
1/18 M			<i>MARTIN LUTHER KING JR. DAY (no classes)</i>
1/20 W	4		Integration by Parts
1/22 F	5		Integration by Parts
1/25 M	6		Diff. Equations: Solutions, Growth and Decay
1/27 W	7		Diff. Equations: Separation of Variables
1/29 F	8		Diff. Equations: Separation of Variables
<b>*2/1 M</b>			<b>EXAM 1 – Normal Class time - Location: Computer Lab TBA</b>
2/3 W	9		First-Order Linear Differential Equations
2/5 F	10		First-Order Linear Differential Equations
2/8 M	11		Area of a Region Between two curves
2/10 W	12		Volume of Solids of Revolution
2/12 F	13		Volume of Solids of Revolution
<b>*2/15 M</b>			<b>EXAM 2 – Normal Class time - Location: Computer Lab TBA</b>
2/17 W	14		Volume of Solids of Revolution
2/19 F	15		Improper Integrals
2/22 M	16		Geometric Series and Convergence
2/24 W	17		Geometric Series and Convergence
2/26 F	18		Functions of Several Variables Intro
<b>*2/29 M</b>			<b>EXAM 3 – Normal Class time - Location: Computer Lab TBA</b>
3/2 W	19		Partial Derivatives
3/4 F	20		Partial Derivatives
3/7 M	21		Differentials of Multivariable Functions
3/9 W	22		Chain Rule, Functions of Several Variables
3/11 F	23		Extrema of Functions of Two Variables
3/14 M			<i>SPRING BREAK (no classes)</i>
-3/18 F			
<b>*3/21 M</b>			<b>EXAM 4 – Normal Class time - Location: Computer Lab TBA</b>
3/23 W	24		Extrema of Functions of Two Variables
3/25 F	25		LaGrange Multipliers - Constrained Min/Max

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Date	Lesson	Quiz #	Assignment/Topics
3/28 M	26		LaGrange Multipliers - Constrained Min/Max
3/30 W	27		Double Integrals, Volume, Applications
4/1 F	28		Double Integrals, Volume, Applications
<b>*4/4 M</b>			<b>EXAM 5 – Normal Class time - Location: Computer Lab TBA</b>
4/6 W	29		Double Integrals, Volume, Applications
4/8 F	30		Systems of Equations, Matrices, Gaussian Elimination
4/11 M	31		Gauss-Jordan Elimination
4/13 W	32		Matrix Operations
4/15 F	33		Inverses and Determinants of Matrices
<b>*4/18 M</b>			<b>EXAM 6 – Normal Class time - Location: Computer Lab TBA</b>
4/20 W	34		Inverses and Determinants of Matrices
4/22 F	35		Eigenvalues and Eigenvectors
4/25 M	36		Eigenvalues and Eigenvectors
4/27 W			REVIEW FOR FINAL EXAM
4/29 F			REVIEW FOR FINAL EXAM
<b>5/2 to 5/7</b>			<b>WEEK OF FINAL EXAMS</b>

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