

MA 16020 Applied Calculus II – IMPACT Course

Calendar – Syllabus(Part I), Fall 2018

**EXAM COVERAGE --- EXAM 1: Lessons R-6, Exam 2: Lessons 7-14, Exam 3: Lessons 14-21
EXAM 4: Lessons 20-26, Exam 5: Lessons 25-32**

SAME number of lessons, SAME homework assignments, SAME exams as traditional sections of the course. **On average more time after topics are covered in class to internalize material before homework is due and exams are taken**, also 1 or 2 quizzes every class meeting. **Must attend class consistently.**

****Note: You absolutely MUST do the assigned Prework consistently and proactively**, which is sent in emails to the IMPACT students, however since **the Prework is simply a subset of the normal coursework**, so the IMPACT course has the same overall workload as for the traditional students.

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

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Date	Lesson	Quiz #	Assignment/Topics
10/29 M	25&26		LaGrange Multipliers - Constrained Min/Max
10/31 W	26&27		LaGrange Multipliers - Constrained Min/Max & Double Integrals, Volume, Applications
11/5 M	*****		EXAM 4 – Normal Class time - Location: Computer Lab TBA
11/7 W	28&29		Double Integrals, Volume, Applications
11/12 M	30&31		Systems of Equations, Matrices, Gaussian Elimination & Gauss-Jordan Elimination
11/14 W	31&32		Gauss-Jordan Elimination & Matrix Operations
11/19 W	33&34		Inverses and Determinants of Matrices
11/21 W			<i>THANKSGIVING BREAK VACATION (no classes)</i>
11/23 F			<i>THANKSGIVING BREAK VACATION (no classes)</i>
11/26 M	*****		*EXAM 5 – Normal Class time - Location: Computer Lab TBA
11/28 W	34&35		Inverses and Determinants of Matrices & Eigenvalues and Eigenvectors
12/3 M	36		Eigenvalues and Eigenvectors
12/5 W			REVIEW FOR FINAL EXAM
12/10 to 12/15			WEEK OF FINAL EXAMS

****SPECIAL NOTE:** The date and time of the final exam will be announced during the semester. **THE SEMESTER DOES NOT END UNTIL SATURDAY, DECEMBER 15 AT 5:00 PM.** INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.