# MA 16020 Applied Calculus II – Distance Learning Course
## Calendar – Syllabus(Part I), Spring 2017
**EXAM 1: Lessons R-6, Exam 2: Lessons 7-13, Exam 3: Lessons 13-19**
**EXAM 4: Lessons 18-24, Exam 5: Lessons 25-32**

**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, NO quizzes, must independently use video lectures in LON-CAPA, and use other learning resources.
MUST BE A SELF-MOTIVATED, PROACTIVE, AND A REASONABLY STRONG MATHEMATICS STUDENT.**

| Date | Lesson | Assignment/Topics |
|------|--------|-------------------|
| 1/9 M | R | Review of Basic Integration |
| 1/11 W | 1 | Integration By Substitution |
| 1/13 F | 2 | Integration By Substitution |
| | | |
| 1/16 M | | *MARTIN LUTHER KING JR. DAY (no classes)* |
| 1/18 W | 3 | The Natural Logarithmic Function: Integration |
| 1/20 F | 4 | Integration by Parts |
| | | |
| 1/23 M | 5 | Integration by Parts |
| 1/25 W | 6 | Diff. Equations: Solutions, Growth and Decay |
| 1/27 F | 7 | Diff. Equations: Separation of Variables |
| | | |
| **\*1/30 M** | **\*\*\*\*\*** | **EXAM 1 – Flexible options 7:30am to 4:30pm in Computer Lab** |
| 2/1 W | 8 | Diff. Equations: Separation of Variables |
| 2/3 F | 9 | First-Order Linear Differential Equations |
| | | |
| 2/6 M | 10 | First-Order Linear Differential Equations |
| 2/8 W | 11 | Area of a Region Between two curves |
| 2/10 F | 12 | Volume of Solids of Revolution |
| | | |
| 2/13 M | 13 | Volume of Solids of Revolution |
| 2/15 W | 14 | Volume of Solids of Revolution |
| 2/17 F | 15 | Improper Integrals |
| | | |
| **\*2/20 M** | **\*\*\*\*\*** | **EXAM 2 – Flexible options 7:30am to 4:30pm in Computer Lab** |
| 2/22 W | 16 | Geometric Series and Convergence |
| 2/24 F | 17 | Geometric Series and Convergence |
| | | |
| 2/27 M | 18 | Functions of Several Variables Intro |
| 3/1 W | 19 | Partial Derivatives |
| 3/3 F | 20 | Partial Derivatives |
| | | |
| **\*3/6 M** | **\*\*\*\*\*** | **EXAM 3 – Flexible options 7:30am to 4:30pm in Computer Lab** |
| 3/8 W | 21 | Differentials of Multivariable Functions |
| 3/10 F | 22 | Chain Rule, Functions of Several Variables |

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| Date | Lesson | Assignment/Topics |
|------|--------|-------------------|
| 3/13 M | | *SPRING BREAK VACATION (no classes)* |
| 3/15 W | | *SPRING BREAK VACATION (no classes)* |
| 3/17 F | | *SPRING BREAK VACATION (no classes)* |
| | | |
| 3/20 M | 23 | Extrema of Functions of Two Variables |
| 3/22 W | 24 | Extrema of Functions of Two Variables |
| 3/24 F | 25 | LaGrange Multipliers - Constrained Min/Max |
| | | |
| **3/27 M** | ***** | **EXAM 4 – Flexible options 7:30am to 4:30pm in Computer Lab** |
| 3/29 W | 26 | LaGrange Multipliers - Constrained Min/Max |
| 3/31 F | 27 | Double Integrals, Volume, Applications |
| | | |
| 4/3 M | 28 | Double Integrals, Volume, Applications |
| 4/5 W | 29 | Double Integrals, Volume, Applications |
| 4/7 F | 30 | Systems of Equations, Matrices, Gaussian Elimination |
| | | |
| 4/10 W | 31 | Gauss-Jordan Elimination |
| 4/12 W | 32 | Matrix Operations |
| 4/14 F | 33 | Inverses and Determinants of Matrices |
| | | |
| **4/17 M** | ***** | **EXAM 5 – Flexible options 7:30am to 4:30pm in Computer Lab** |
| 4/19 W | 34 | Inverses and Determinants of Matrices |
| 4/21 F | 35 | Eigenvalues and Eigenvectors |
| | | |
| 4/24 M | 36 | Eigenvalues and Eigenvectors |
| 4/26 W | | REVIEW FOR FINAL EXAM |
| 4/28 F | | REVIEW FOR FINAL EXAM |
| | | |
| **5/1 to 5/6** | | **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, MAY 6 AT 5:00 PM**. INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.