

# MA 16020 Applied Calculus II – Distance Learning Course

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

**EXAM 1: Lessons 1-7, Exam 2: Lessons 6-12, Exam 3: Lessons 12-18**  
**EXAM 4: Lessons 18-23, Exam 5: Lessons 23-28, Exam 6: Lessons 27-32**

**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 MATHEMATICAS STUDENT.**

| Date           | Lesson       | Quiz # | Assignment/Topics   |
|----------------|--------------|--------|---|
| 8/22 M         | 1            |        | Integration By Substitution                                       |
| 8/24 W         | 2            |        | Integration By Substitution                                       |
| 8/26 F         | 3            |        | The Natural Logarithmic Function: Integration                     |
| 8/29 M         | 4            |        | Integration by Parts  |
| 8/31 W         | 5            |        | Integration by Parts  |
| 9/2 F          | 6            |        | Diff. Equations: Solutions, Growth and Decay                      |
| 9/5 M          |              |        | <i>LABOR DAY (no classes)</i>                                     |
| 9/7 W          | 7            |        | Diff. Equations: Separation of Variables                          |
| 9/9 F          | 8            |        | Diff. Equations: Separation of Variables                          |
| <b>*9/12 M</b> | <b>*****</b> |        | <b>EXAM 1 – Flexible options 7:30am to 3:30pm in Computer Lab</b> |
| 9/14 W         | 9            |        | First-Order Linear Differential Equations                         |
| 9/16 F         | 10           |        | First-Order Linear Differential Equations                         |
| 9/19 M         | 11           |        | Area of a Region Between two curves                               |
| 9/21 W         | 12           |        | Volume of Solids of Revolution                                    |
| 9/23 F         | 13           |        | Volume of Solids of Revolution                                    |
| <b>*9/26 M</b> | <b>*****</b> |        | <b>EXAM 2 – Flexible options 7:30am to 3:30pm in Computer Lab</b> |
| 9/28 W         | 14           |        | Volume of Solids of Revolution                                    |
| 9/30 F         | 15           |        | Improper Integrals  |
| 10/3 M         | 16           |        | Geometric Series and Convergence                                  |
| 10/5 W         | 17           |        | Geometric Series and Convergence                                  |
| 10/7 F         | 18           |        | Functions of Several Variables Intro                              |
| 10/10 M        |              |        | <i>OCTOBER BREAK (no classes)</i>                                 |
| 10/12 W        | 19           |        | Partial Derivatives   |
| 10/14 F        | 20           |        | Partial Derivatives   |
| 10/17 M        | <b>*****</b> |        | <b>EXAM 3 – Flexible options 7:30am to 3:30pm in Computer Lab</b> |
| 10/19 W        | 21           |        | Differentials of Multivariable Functions                          |
| 10/21 F        | 22           |        | Chain Rule, Functions of Several Variables                        |

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|---------|--------|--------|--|
| 10/24 M | 23     |        | Extrema of Functions of Two Variables      |
| 10/26 W | 24     |        | Extrema of Functions of Two Variables      |
| 10/28 F | 25     |        | LaGrange Multipliers - Constrained Min/Max |

| Date                  | Lesson       | Quiz # | Assignment/Topics   |
|-----------------------|--------------|--------|---|
| <b>10/31 M</b>        | <b>*****</b> |        | <b>EXAM 4 – Flexible options 7:30am to 3:30pm in Computer Lab</b> |
| 11/2 W                | 26           |        | LaGrange Multipliers - Constrained Min/Max                        |
| 11/4 F                | 27           |        | Double Integrals, Volume, Applications                            |
| 11/7 M                | 28           |        | Double Integrals, Volume, Applications                            |
| 11/9 W                | 29           |        | Double Integrals, Volume, Applications                            |
| 11/11 F               | 30           |        | Systems of Equations, Matrices, Gaussian Elimination              |
| <b>11/14 M</b>        | <b>*****</b> |        | <b>EXAM 5 – Flexible options 7:30am to 3:30pm in Computer Lab</b> |
| 11/16 W               | 31           |        | Gauss-Jordan Elimination  |
| 11/18 F               | 32           |        | Matrix Operations   |
| 11/21 M               | 33           |        | Inverses and Determinants of Matrices                             |
| 11/23 W               |              |        | <i>THANKSGIVING VACATION (no classes)</i>                         |
| 11/25 F               |              |        | <i>THANKSGIVING VACATION (no classes)</i>                         |
| <b>11/28 M</b>        | <b>*****</b> |        | <b>EXAM 6 – Flexible options 7:30am to 3:30pm in Computer Lab</b> |
| 11/30 W               | 34           |        | Inverses and Determinants of Matrices                             |
| 12/2 F                | 35           |        | Eigenvalues and Eigenvectors                                      |
| 12/5 M                | 36           |        | Eigenvalues and Eigenvectors                                      |
| 12/7 W                |              |        | REVIEW FOR FINAL EXAM   |
| 12/9 F                |              |        | REVIEW FOR FINAL EXAM   |
| <b>12/12 to 12/17</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, DECEMBER 17 AT 9:00 PM.** INDIVIDUALS WANTING TO LEAVE CAMPUS EARLY **WILL NOT** BE GRANTED EARLY FINAL EXAMS TO ACCOMMODATE TRAVEL PLANS.