

**Math 154 – Calculus II**  
**Class Calendar Winter 2018**  
**Class Time: MW 6:00 p.m. - 8:30 p.m.**

**Instructor:** Mona Baarson  
**Office:** JM 246

**Phone:** (517)796–8579  
**E-mail:** [baarsonmonag@jccmi.edu](mailto:baarsonmonag@jccmi.edu)

**Text:** Calculus: Early Transcendental Functions, 2<sup>nd</sup> Edition  
**Author:** Briggs, Cochran, Gillett  
**Publisher:** Pearson  
**ISBN:** 13: 978-0-321-94734-5 (Student Copy) or 10: 0-321-94734-7 (Student Copy)

**Graphing Calculator Required:** TI-84 Plus, TI-89 or TI-N-Spire CAS

|   | Day    | Sections                   | Topic  |
|---|--------|----------------------------|--|
| M | 15-Jan | 4.9<br>5.5<br>5.5          | Course Introduction<br>Calculus I Review<br>Antiderivatives and Indefinite Integration(review)<br>Integration by Substitution (review)<br>Inverse Trigonometric Functions : Integration (review) |
| W | 17-Jan | 6.1<br>6.2                 | Velocity and Net Change<br>Regions Between Curves  |
| M | 22-Jan | 6.2<br>6.3                 | Regions Between Curves<br>Volume by Slicing – Disk and Washer Method   |
| W | 24-Jan | 6.4                        | Volume by Shells   |
| M | 29-Jan | 6.5<br>6.6                 | Length of Curves<br>Surface Area   |
| W | 31-Jan | 6.7                        | Physical Applications – Density and Mass/ Work/ Force and Pressure   |
| M | 5-Feb  | 6.7<br>6.8                 | Physical Applications – Density and Mass/ Work/ Force and Pressure<br>Logarithmic and Exponential Functions Revisited  |
| W | 7-Feb  | 6.9                        | Exponential Models   |
| M | 12-Feb | 6.10<br><b>Review Exam</b> | Hyperbolic Functions<br><b>Exam #1 Review of Chapter 6</b><br><b>Exam #1 – Chapter 6 (Will be taken in Testing Lab...WA 118)</b>   |
| W | 14-Feb | 7.1<br>7.2                 | Integration Techniques – Basic Approaches<br>Integration by Parts  |
| M | 19-Feb | 7.3<br>7.4                 | Trigonometric Integrals<br>Trigonometric Substitutions   |
| W | 21-Feb | 7.4<br>7.5                 | Trigonometric Substitutions<br>Partial Fractions   |

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|----|------------|--------------------|--|
| M  | 26-Feb     | 7.5<br>7.6<br>4.7  | Partial Fractions<br>Other Integration Strategies<br>L'Hopital's Rule                                      |
| W  | 28-Feb     | 4.7<br>7.8         | L'Hopital's Rule<br>Improper Integrals   |
| M  | 5-Mar      | 7.9                | Introduction to Differential Equations   |
| W  | 7-Mar      | <b>Review Exam</b> | <b>Exam #2 Review of Chapter 7</b><br><b>Exam #2 – Chapter 7</b>   |
| M  | 12-Mar     |                    | <b>Mid-Semester Break – No Classes</b>   |
| to | ----       |                    | <b>Mid-Semester Break – No Classes</b>   |
| Su | 18-Mar     |                    | <b>Mid-Semester Break – No Classes</b>   |
| M  | 19-Mar     | 10.1               | Parametric Equations   |
| W  | 21-Mar     | 10.1<br>10.2       | Parametric Equations<br>Polar Coordinates  |
| M  | 26-Mar     | 10.2               | Polar Coordinates  |
| W  | 28-Mar     | 10.3               | Calculus in Polar Coordinates<br>Calculus in Polar Coordinates   |
| M  | 2-Apr      | 10.3<br>10.4       | Calculus in Polar Coordinates<br>Conic Sections  |
| W  | 4-Apr      | 10.4               | Conic Sections   |
| M  | 9-Apr      | <b>Review Exam</b> | <b>Exam #3 Review of Chapter 10</b><br><b>Exam #3 – Chapter 10 (Will be taken in Testing Lab...BW 121)</b> |
| W  | 11-Apr     | 8.1                | An Overview – Sequences and Infinite Series  |

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|       | <b>Day</b> | <b>Sections</b> | <b>Topic</b>   |
|-------|------------|-----------------|--|
| M     | 16-Apr     | 8.2             | Sequences  |
| W     | 18-Apr     | 8.3             | Infinite Series  |
| <hr/> |            |                 |  |
| M     | 23-Apr     | 9.1             | Approximating Functions with Polynomials                     |
| W     | 25-Apr     | 9.2             | Properties of Power Series                                   |
|       |            | 9.3             | Taylor Series  |
|       |            | <i>Exam</i>     | <i>Exam #4 – Chapters 8 and 9 (Will be a take home exam)</i> |
| <hr/> |            |                 |  |
| M     | 30-Apr     | <i>Review</i>   | <i>Comprehensive Final Exam Review</i>                       |
| W     | 2-May      | <i>Exam</i>     | <i>Final Exam</i>  |
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