

MATH 2300 - Calculus III Tentative Calendar - FALL 2021

| MONDAY   | WEDNESDAY   | FRIDAY   |
|--|---|--|
| 23-Aug<br>12.1 - 3D Coordinate Systems.<br>12.2 - Vectors  | 25-Aug<br>12.2 - Vectors.<br>12.3 - The Dot Product.  | 27-Aug<br>12.3 - The Dot Product.<br><br><i>INTRO HW DUE</i>                                     |
| 30-Aug<br>12.4 - The Cross Product<br><i>Last day to register, add or change sections</i>              | 1-Sep<br>12.5 - Equations of Lines and Planes<br><i>HW 1 DUE</i>  | 3-Sep<br>12.5 - Equations of Lines and Planes  |
| 6-Sep<br><i>Labor Day Holiday – NO CLASSES</i>   | 8-Sep<br>13.1 - Vector Functions and Space Curves<br>13.2 - Deriv. & Integrals of Vector Functions<br><i>HW 2 DUE</i>     | 10-Sep<br>13.2 - Wrap-Up<br>13.3 - Arc Length & Curvature  |
| 13-Sep<br>13.4 - Motion in Space - Velocity & Accel.   | 15-Sep<br>14.1 - Functions of Several Variables<br>14.3 - Partial Derivatives<br><i>HW 3 DUE</i>                          | 17-Sep<br>14.3 - Partial Derivatives   |
| 20-Sep<br>14.4 - Tangent Planes & Linear Approx.   | 22-Sep<br>Wrap-up/Review<br><i>HW 4 DUE</i>   | 24-Sep<br><b>EXAM 1</b>  |
| 27-Sep<br>14.5 - The Chain Rule<br><i>Last day to drop course without a grade</i>                      | 29-Sep<br>14.6 - Directional Deriv. & the Gradient Vector<br><i>HW 5 DUE</i>  | 1-Oct<br>14.7 - Maximum & Minimum Values   |
| 4-Oct<br>14.8 - Lagrange Multipliers   | 6-Oct<br>15.1 - Double Integrals over Rectangles<br><i>HW 6 DUE</i>   | 8-Oct<br>15.1 - Double Integrals over Rectangles<br>15.2 - Double Integrals over General Regions |
| 11-Oct<br>15.2 - Double Integrals over General Regions<br>15.3 - Double Integrals in Polar Coordinates | 13-Oct<br>15.3 - Double Integrals in Polar Coordinates<br>15.4 - Applications of Double Integrals<br><i>HW 7 DUE</i>      | 15-Oct<br>15.5 - Surface area<br>15.6 - Triple Integrals   |
| 18-Oct<br>15.6 - Triple Integrals  | 20-Oct<br>Wrap-up/Review<br><i>HW 8 DUE</i>   | 22-Oct<br><b>EXAM 2</b>  |
| 25-Oct<br>15.7 - Triple Int. in Cylindrical Coordinates<br>15.8 - Triple Int. in Spherical Coordinates | 27-Oct<br>15.8 - Triple Int. in Spherical Coordinates<br>15.9 - Change of Variables in Mult. Integrals<br><i>HW 9 DUE</i> | 29-Oct<br>15.9 - Change of Variables in Mult. Integrals  |
| 1-Nov<br>16.1 - Vector Fields<br>16.2 - Line Integrals   | 3-Nov<br>16.2 - Line Integrals<br>16.3 - The Fund. Theorem for Line<br><i>HW 10 DUE</i>                                   | 5-Nov<br>16.3 - The Fund. Theorem for Line Integrals   |
| 8-Nov<br>16.4 - Green's Theorem  | 10-Nov<br>16.4 - Green's Theorem<br>16.5 - Curl & Divergence<br><i>HW 11 DUE</i>  | 12-Nov<br>16.5 - Curl & Divergence   |
| 15-Nov<br>16.6 - Parametric Surfaces   | 17-Nov<br>Wrap-up/Review<br><i>HW 12 DUE</i>  | 19-Nov<br><b>EXAM 3</b>  |
| <b>THANKSGIVING RECESS</b>   |   |  |
| 29-Nov<br>16.7 - Surface Integrals   | 1-Dec<br>16.7 - Surface Integrals<br>16.8 - Stokes' Theorem<br><i>HW 13 DUE</i>   | 3-Dec<br>16.8 - Stokes' Theorem  |
| 6-Dec<br>16.9 - Divergence Theorem<br><i>Last day to withdraw</i>                                      | 8-Dec<br>Wrap-up/Review<br><i>HW 14 DUE</i>   | 10-Dec<br><i>Reading Day NO CLASSES</i>  |
| 13-Dec   | 15-Dec<br><b>FINAL EXAM 5:30 -7:30 PM</b>   | 17-Dec   |