| Math 242 Sequence of Topics From Calculus, 3rd Edition, by Briggs \& Cochran |  |  |
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| § | Topic | Assignment |
| 13.1 | Vectors in the Plane | $\begin{aligned} & 6,15,17,27,28,31,35,39,41,45,47,51,53-63 \\ & \text { odd, } 69,71,76,87 \end{aligned}$ |
| 13.2 | Vectors in Three Dimensions | $7,11,19,21,23-37$ odd, $41,47,51,53,55,61,65$, 69, 74, 77 |
| 13.3 | Dot Products | $\begin{aligned} & 3,9,15,19-29 \text { odd, } 37,39,41,45,47,49,52,53 \text {, } \\ & 55,60,63,65,69,77 \end{aligned}$ |
| 13.4 | Cross Products | $\begin{aligned} & 5,11,15,19,23,25,27,31,35,43,47,49,51,59 \text {, } \\ & 66 \end{aligned}$ |
| 13.5 | Lines \& Planes in Space | $\begin{aligned} & 9,13,17-23 \text { odd, } 27-39 \text { odd, } 45,47,49,53,57,63 \text {, } \\ & 67,73,75,91 \end{aligned}$ |
| 13.6 | Cylinders \& Quadric Surfaces | $\begin{aligned} & 7,11,15,19,23,27,31,35,39,43,47,51,55,57 \text {, } \\ & 62 \end{aligned}$ |
| 14.1 | Vector-Valued Functions | 9-21 odd, 31, 33, 35, 39, 41, 43, 47, 55, 57 |
| 14.2 | Calculus of Vector-Valued Functions | $\begin{aligned} & 9-31 \text { odd, } 35,41,47,49,55,57,61,63,67,69,73 \text {, } \\ & 74,77,81,85 \end{aligned}$ |
| 14.3 | Motion in Space | 7, 11-19 odd, 29, 31, 35, 39, 50, 75, 76, 77 |
| 14.4 | Length of Curves | 9, 11, 15, 17, 19, 23, 33-41 odd, 46, 51 |
| 14.5 | Curvature \& Normal Vectors | 11, 13, 17, 19, 23-33 odd, 68, 69 |
| 15.1 | Graphs \& Level Curves | $\begin{aligned} & 3,7,15-23 \text { odd, } 28,29,33,35,39,41,43,51,52 \text {, } \\ & 53,55,63 \mathrm{a}, 65 \mathrm{a}, 66 \mathrm{a}, 79,80 \end{aligned}$ |
| 15.2 | Limits \& Continuity | $8,11,15,17,21-33$ odd, $37-45$ odd, $49,53,57,59$, 63-73, 79 |
| 15.3 | Partial Derivatives | $5,11-37$ odd, $41,43,52,55,57,60,71,73,77,78$, 83, 96 |
| 15.4 | The Chain Rule | $\begin{aligned} & 7-13 \text { odd, } 17,19,23-29 \text { odd, } 35,37,39,45,51,55 \text {, } \\ & 59,61,67 \end{aligned}$ |
| 15.5 | Directional Derivatives \& the Gradient | $7,9,15,17,20,21-39$ odd, $49,51,55,57,61,63$, 65, 71, 85c |
| 15.6 | Tangent Planes \& Linear Approximation | 2, 9, 15-21 odd, 25-37 odd, 41, 43, 47, 55, 57, 59 |
| 15.7 | Maximum/Minimum Problems | 13-21 odd, 25-39 odd, 43-53 odd, 59, 63, 65 |
| 15.8 | Lagrange Multipliers | 7, 11, 15, 19, 23, 27, 31, 33 |
| 16.1 | Double Integrals Over Rectangles | $7,11,13,15,19,23,25,27,31,33,37-45$ odd |
| 16.2 | Double Integrals Over General Regions | 9, 13-23 odd, $27-41$ odd, $45,49,53-63$ odd, 67 , 71-77 odd, 85, 87, 89 |
| 16.3 | Double Integrals in Polar Coordinates | 11-37 odd, 43-49 odd, 57 |
| 16.4 | Triple Integrals | 7-29 odd, 33, 39-49 odd, 61, 67 |
| 16.5 | Triple Integrals in Curvilinear Coordinates | $3,4,15-23$ odd, $27-35$ odd, 41-53 odd, 59, 66, 67 |
| 17.1 | Vector Fields | 9, 11, 15, 24, 25-43 odd, 49-52 all |


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| 17.2 | Line Integrals | $5,7,17-33$ odd, $39-45$ odd, $49,51,57,59,65$, |
|  |  | 71,76 |

