Math 20E Winter 2019 Schedule

(tentative, subject to change)

M : 1/7 Introduction, 5.1, 5.2 The double integral

W 1/9: 5.3 The double integral over more general regions and 5.4 Changing the order of integration

F 1/11: 5.5 The triple integral

M 1/14: 5.5 The tiple integral and 6.1 The geometry of maps from $\mathbb{R}^2$ to $\mathbb{R}^2$

W 1/16: 6.1 The geometry of maps from $\mathbb{R}^2$ to $\mathbb{R}^2$ and 6.2 The change of variables theorem for double integrals

F 1/18: 6.2 The change of variables theorem for double integrals

M 1/21: Martin Luther King Day, no lecture

W 1/23: 1.4 Cylindrical and spherical coordinates and 6.2 The change of variables theorem for triple integrals

F 1/25: 6.2 The change of variables theorem for triple integrals and Review/Overflow

M 1/28: **Midterm 1**

W 1/30: 4.3 Vector fields

F 2/1: 7.1 The path integral

M 2/4: 7.2 Line integrals

W 2/6: 7.3 Parametrized surfaces

F 2/8: 7.3 Parametrized surfaces and 7.4 Area of a surface

M 2/11: 7.4 Area of a surface

W 2/13: 7.5 Integrals of scalar functions over surfaces

F 2/15: 7.5 Integrals of scalar functions over surfaces and 7.6 Surface integrals of vector fields

M 2/18: Presidents Day, no lecture

W 2/20: 7.6 Surface integrals of vector fields

F 2/22: Review/Overflow

M 2/25: **Midterm 2**

W 2/27: 8.1 Green's theorem

F 3/1: 8.1 Green's theorem

M 3/4: 4.4 Curl and 8.2 Stokes' theorem

W 3/6: 8.2 Stokes' theorem

F 3/8: 4.4 Divergence and 8.4 Gauss' theorem

M 3/11: 8.4 Gauss' theorem

W 3/13: 8.3 Conservative vector fields

F 3/15: Review/Overflow

F 3/22: **Final** 3:00 - 5:59pm location to be determined