Mathematics 212 Spring, 2015, Section 2 Wieting

MULTIVARIABLE CALCULUS

Basic Concepts

- (\bullet) Fields
- (\bullet) Operators

Line Integrals

(•) Independence of Path

Integration on \mathbf{R}^n

- (•) Fubini's Theorem
- (\bullet) Change of Variables

Surface Integrals

- (\bullet) Gauss' Theorem
- (\bullet) Stokes' Theorem

Volume Integrals

Area Preserving Maps

 (\bullet) Mollweide et al.

Differential Forms

(•) Stokes' Theorem Redux

Texts

Notes, Jerry Shurman (bookstore)

Homework

Weekly: Wednesday \longrightarrow Wednesday

Examination

End of Term: Take Home/Open Book