14.4 Tangent Planes and Linear Approximations
14.5 The Chain Rule
14.6 Directional Derivatives and the Gradient Vector
14.7 Maximum and Minimum Values
14.8 Lagrange Multipliers

Chapter 15:
15.1 Double Integrals over Rectangles
15.2 Double Integrals over General Regions
15.3 Double Integrals over Polar Coordinates
15.4 Applications of Double Integrals
15.5 Surface Area
15.6 Triple Integrals
15.7 Triple Integrals in Cylindrical Coordinates
15.8 Triple Integrals in Spherical Coordinates
15.9 Change of Variables in Multiple Integrals

Chapter 16:
16.1 Vector Fields
16.2 Line Integrals
16.3 The Fundamental Theorem for Line Integrals
16.4 Green's Theorem
16.5 Curl and Divergence
16.6 Parametric Surfaces and Their Areas
16.7 Surface integrals
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16.9 The Divergence Theorem

VI.   POSSIBLE TEXTS AND REFERENCES:
Calculus Early Transcendentals, 8th edition by James Stewart

VII.   STUDENT ACADEMIC MISCONDUCT POLICY:
Maintaining high standards of academic integrity in every class at Tennessee Tech is
critical to the reputation of Tennessee Tech, its students, alumni, and the employers of
Tennessee Tech graduates. The Student Academic Misconduct Policy describes the
definitions of academic misconduct and policies and procedures for addressing Academic
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Student Academic Misconduct at Policy Central.

VIII. DISABILITY ACCOMMODATION:
Students with a disability requiring accommodations should contact the Office of
Disability Services (ODS). An Accommodation Request (AR) should be completed as
soon as possible, preferably by the end of the first week of the course. The ODS is
located in the Roaden University Center, Room 112; phone 372-6119. For details, view
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Central.

Last Revised: 12/14/16