Catalog Description:
Differential and integral calculus of one real variable.

Prerequisite:
Math Placement Level L, or C- or better in: 1150, or in both 1148 & 1149; or in 150 or 1144.

Exclusions:
Not open to students with credit for any higher numbered math class.

Text:
Calculus for Scientists and Engineers: Early Transcendentals 2nd edition, by Briggs, Cochran, and Gillett, published by Pearson. ISBN: 9781256776468

Topics List:

1.1	Review of Functions
1.2	Representing Functions
1.3	Inverse, Exponential, and Logarithmic Functions
1.4	Trigonometric Functions and Their Inverses
2.1	The Idea of Limits
2.2	Definitions of Limits
2.3	Techniques for Computing Limits
2.4	Infinite Limits
2.5	Limits at Infinity
2.6	Continuity
3.1	Introducing the Derivative

Midterm 1

3.2	Working with Derivatives
3.3	Rules of Differentiation
3.4	The Product and Quotient Rules
3.5	Derivatives of Trigonometric Functions
3.6	Derivative as Rates of Change
3.7	The Chain Rule
3.8	Implicit Differentiation
3.9	Derivatives of Logarithmic and Exponential Functions
3.10	Derivatives of Inverse Trigonometric Functions
3.11	Related Rates
4.1	Maxima and Minima

Midterm 2

Midterm 3

Final