

**Southeastern University**  
**College of Natural and Health Sciences**  
**Department of Mathematics**  
**MATH 2244 - Calculus II**  
**Official Syllabus**

**Catalog Description**

This course involves the study of antiderivatives, definite integrals, improper integrals, sequences, series, transcendental functions, and polar coordinates.

Prerequisite: MATH 2144

Credit Hours: 4

Repeatable: Course not repeatable

**Intended Learning Outcomes**

Students who successfully complete this course will:

1. Solve mathematical problems using antiderivatives.
2. Apply techniques of integration to practical problems.
3. Demonstrate the correct usage of transcendental functions, to include logarithmic and exponential functions.
4. Understand principles of inverse trigonometric functions.
5. Apply concept of infinite series to solve problems.
6. Show how to calculate areas of plane regions and lengths of curves in polar coordinates.

**Version History**

v1.0 Original course proposal.

10/09/2002 v2.0 Revised.

01/22/2013 v3.0 Description and ILOs revised.

11/14/2023 v4.0 Updated.