

## **Calculus 2**

**Course Description:** A study of integration, techniques of integration, applications of integration, and an introduction to infinite sequences and series.

### **Course Objectives:**

- Become technically proficient at advanced integration techniques.
- Become adept at calculating volume, surface area, and arc length.
- Be able to discuss the convergence behavior of infinite sequences and series.
- Be capable of describing standard functions in terms of their power series.
- Be able to use a graphing calculator to integrate functions; find volumes, arc lengths, and surface