MATH 242 : Calculus II

Credits: 4
Class Hours: 4 lecture
Prerequisites: "C" or higher in MATH 241 or acceptable math placement.
Description: This course offers the opportunity to study integral calculus, transcendental functions, and series representation of functions. Applications include finding the balancing point of an object, computing the force on submerged objects, and modeling population growth, radioactive decay, and the temperature of a heating or cooling object.
Semester Offered: Spring
Designation:
Foundations (Quantitative Reasoning) — FQ
Course Student Learning Outcomes (CSLOs):
1. Compute definite and indefinite integrals.
2. Apply the concept of integral to solve realistic problems.
3. Apply series representation of functions to approximate values of functions and to simplify formulas.
4. Use proper symbolism and language to communicate mathematical reasoning.