THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

Applied Mathematical Ecology

ENVENG 5217

Credit Hours:
3.00 - 3.00

Course Components:
Lecture

Course Description:
Description and application of basic methods to model population, communities and the interactions between ecosystems and the earth system.

Prerequisites and Co-requisites:
Prereq: CivilEn 2060 (406) or equivalent, and Engr 1221 or CSE 1221, and enrollment in CivilEn or EnvEng major; or Grad standing; or permission of instructor.

Course Goals / Objectives:
- Enable the students to write simple ecological models
- Understand ecosystem dynamics and environmental effects on ecosystems
- Understand the role of natural population processes to guide restoration and creation of ecosystems
- Evaluate models with observations