

**Department:** Mathematics and Computer Sciences  
**Division:** Applied Mathematics  
**Level and Major:** Graduate

**Course Title:** Advanced Engineering Mathematics

**Number of Credits:** 3

**Prerequisite:**

**Lecturer:**

**Course Description:**

**Course Goals and Objectives:**

**Course Topics:**

- Introducing IVP and BVP
- Fourier transform
- Separation of variable method for analytical solution of PDEs
- Transformation methods for analytical solution of PDEs
- Complex Functions
- Numerical derivations
- Finite difference method

**Reading Resources:**

**Evaluation:**