

# EI E 340: Electrical Engineering Analysis I Electrical Engineering

Vector differential calculus; line, surface, and volume integrals of vector functions; complex numbers, limits, analytical functions, and derivatives; line integrals; Cauchy's theorem and formula; Taylor and Laurent series; residue theory.

#### 3 Credits Prerequisites

- <u>Math 264: Unified Calculus & Analytic Geometry IV</u>
- Math 353: Elementary Differential Equations
- Pre-Requisite: 24 Earned Hours

# Instruction Type(s)

• Lecture: Lecture for El E 340

### **Subject Areas**

Electrical, Electronics and Communications Engineering, Other

#### **Related Areas**

- Electrical and Electronics Engineering
- Laser and Optical Engineering
- <u>Telecommunications Engineering</u>

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