

# El E 340: Electrical Engineering Analysis I

## Electrical and Computer 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

- [Math 264: Unified Calculus & Analytic Geometry IV](#)
- [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](#)
- [Telecommunications Engineering](#)

