El 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**
- Math 264: Unified Calculus & Analytic Geometry IV
- Math 353: Elementary Differential Equations

**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