

## **EI E 341: Theory of Fields**

### **ELECTRICAL ENGINEERING**

Field concepts, vector algebra and calculus, Laplace's equations, wave equation, diffusion equation and their solutions; electric and magnetic fields, Maxwell's equations.

3 Credits

### **Prerequisites**

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

### **One-way corequisites**

- [Engr 410: Engineering Analysis II](#)

### **Instruction Type(s)**

- Lecture: Lecture for EI E 341

### **Subject Areas**

- [Electrical and Electronics Engineering](#)

### **Related Areas**

- [Electrical, Electronics and Communications Engineering, Other](#)
- [Laser and Optical Engineering](#)
- [Telecommunications Engineering](#)

