

## **EI E 451: Electrical Energy Conversion**

### **Electrical and Computer Engineering**

Basic principles of electrical energy conversion; fundamentals of electromechanical devices and applications. DC and AC motors and generators. Transformers and electric power transmission.

3 Credits

#### **Prerequisites**

- [EI E 331: Signals and Systems](#) \$target.descriptions.MinimumGrade\$
- [Engr 360: Electric Circuit Theory](#) \$target.descriptions.MinimumGrade\$
- Pre-Requisite: 24 Earned Hours

#### **One-way corequisites**

- [EI E 341: Theory of Fields](#)

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

- Lecture: Lecture for EI E 451

#### **Subject Areas**

- [Electrical and Electronics Engineering](#)

#### **Related Areas**

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

