

Certificate in Transportation Electrification

Admission

Students seeking this certificate must be admitted to the Graduate School in a degree program or in nondegree status. All Graduate School policies relative to admissions apply. This certificate may be obtained concurrently while pursuing a graduate degree.

Students admitted to the program must have a BS degree in engineering with at least one course in electrical and electronics circuits. The program is also available to students with other degrees that have experience in electrical power or automotive industry. Depending on an individual student's background, some of the certificate courses may require additional prerequisites.

Program Requirements

The certificate requires the completion of 13 credit hours from a selected list of courses. A cumulative graduate grade point average of at least 3.000 must be maintained for all courses comprising the certificate program and no grades below *C*. In addition to these requirements, students must meet the Graduate School's requirements (<http://catalog.wichita.edu/graduate/academic-information/types-programs-courses/certificate-residency-badge-programs/>) in order to earn this certificate.

| Course | Title | Hours |
|-----------------------------|--|-----------|
| Required Courses | | |
| ECE 777AA | Introduction to Transportation Electrification | 3 |
| ECE 777AD | Electric Machines for Transportation Electrification | 3 |
| ECE 688 | Power Electronics | 4 |
| Selective Course | | |
| Select one of the following | | 3 |
| ECE 792 | Linear Systems | |
| ECE 777AC | Data-Driven Decisions in Cyber-Physical Systems | |
| ECE 707 | Machine Learning Essentials and Applications | |
| Total Credit Hours | | 13 |