

# ELECTRICAL SYSTEM PROTECTION AND CONTROL

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This certificate provides practical knowledge of power system protection and communication fundamentals. Topics include an introduction for protecting an electrical system from faults, communication models for monitoring and controlling the electrical system, and cybersecurity of the smart grid. So the protection coordination can be managed properly and understand the potential issues of cybersecurity. The certificate is ideal for professionals who want to enhance their capabilities in power system protection and communication as well as experienced professionals who want to receive the necessary retraining to change careers. (9 credit hours)

The certificate can be completed entirely on campus, entirely online, or through a combination of on-campus and online courses.

Only courses completed with grade C or better will be counted toward the certificate degree. A minimum certificate grade point average of B (3.0 on a 4.0 point scale) is required to obtain the certificate.

The certificate requires 9 credit hours.

Code	Title	Credit Hours
<b>9 credits required:</b>		
ECE 5421	Grid Communication and System	3
ECE 5422	Grid Protection	3
ECE 5423	Advanced Grid Protection	3

The credits earned in this certificate program may be applied toward an ECE graduate degree program, subject to the curriculum requirement of the graduate degree program. Only 500-level or above graduate coursework can be double-counted to meet the degree requirements of ECE graduate programs. Please note that a maximum of two stackable certificates can be used towards earning an ECE graduate degree program.

Students admitted to certificate programs must complete requirements within three (3) years from the date of first enrollment in the program, with only one possible one-year extension allowed for unusual individual circumstances.