ELECTRICAL SYSTEM ANALYTICS

This certificate provides fundamental knowledge, emerging practices, and real-world applications of data analytics and machine learning for power systems. Topics include data mining, data analytics, machine learning, and their applications for power systems. The certificate is ideal for professionals who want to enhance their capabilities in power system planning and operation, 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: one (1) core course and two (2) elective courses.

Code	Title	Credit Hours
9 credits from the following:		
Required core course:		
ECE 5424	Data Analytics and Machine Learning for Power Systems	3
Select 2 elective courses from the following:		
ECE 537	Data Mining	3
ECE 579	Intelligent Systems	3
ECE 5831	Pat Rec & Neural Netwks	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.