BIG DATA CERTIFICATE, GRADUATE

Certificates are intended primarily for working professionals, and provide a "bite-sized" chunk of graduate coursework. See Professional Master of Computer Science (MCS) (http://catalog.ewu.edu/stem/cs-ee/computer-science-mcs/) for additional information.

Required Certificate Prerequisites—must be completed prior to admission.

CSCD 300	DATA STRUCTURES	
CSCD 320	ALGORITHMS	
CSCD 327	RELATIONAL DATABASE SYSTEMS	
Certificate Requirements		
CSCD 529	DATA MINING	4
CSCD 530	BIG DATA ANALYTICS	4
CSCD 601	RESEARCH REPORT	4
Total Credits		**12**

Students who successfully earn a Big Data Graduate Certificate from EWU should be able to do the following:

- apply advanced knowledge of computing and information systems applications to areas such as networking, database, security and privacy, and Web technologies;
- apply contemporary techniques for managing, mining, and analyzing big data across multiple disciplines;
- be better prepared for career advancement in all areas of data science and information technology;
- communicate their ideas and findings persuasively in written, oral and visual form and to work in a diverse team environment;
- use computation and computational thinking to gain new knowledge and to solve real-world problems of high complexity.