

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/science-technology-engineering-mathematics/computer-science/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 506	RESEARCH METHODS IN COMPUTER SCIENCE	4
CSCD 529	DATA MINING	4
CSCD 530	BIG DATA ANALYTICS	4
CSCD 601	RESEARCH REPORT	4
Total Credits		16

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.