

# NETWORK SECURITY, GRADUATE CERTIFICATE

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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 330	COMPUTER NETWORKS

**Certificate Requirements**

CSCD 506	RESEARCH METHODS IN COMPUTER SCIENCE	4
CSCD 533	COMPUTER NETWORKS	4
CSCD 534	NETWORK SECURITY	4
CSCD 601	RESEARCH REPORT	4

Total Credits		16
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Students who successfully earn a Network Security, Graduate Certificate from EWU should be able to do the following:

- create security policies for protection of network assets;
- demonstrate knowledge of network security techniques in order to secure networks;
- explain the use of cryptographic protocols to help secure the network;
- identify how hackers, hacktivists and highly skilled cyber criminals attack networks including the tools they use and techniques;
- use tools such as vulnerability scanners, traffic analysis tools and port scanners.