

COMPUTER SCIENCE, MASTER OF SCIENCE (MS)

Contact the department.

The Master's Program in Computer Science has been designed to provide opportunities for professional growth in this rapidly changing field. The program strives to provide a balance between practical applications-oriented content and a theoretical framework for continued learning. Also see MCS-Professional Computer Science (<http://catalog.ewu.edu/stem/cs-ee/computer-science-mcs/>).

Required Core—this coursework provides core knowledge in the areas of algorithms, database systems, software engineering, and research methods.

CSCD 501	ADVANCED ALGORITHMS	5
CSCD 506	RESEARCH METHODS IN COMPUTER SCIENCE (must be taken in the first year of the program)	4
CSCD 524	ADVANCED SOFTWARE ENGINEERING	4
CSCD 527	MODERN DATABASE SYSTEMS	4

Electives—choose five courses—at least two must be at the 500-level 20

Note: This coursework provides the student an opportunity to take courses specialized to their particular area(s) of interest. Any 400-level or non-CSCD course must be approved by the CSCD graduate coordinator or the student's graduate committee chair. CSCD 695 cannot be used to satisfy any portion of these elective requirements. The courses CSCD 538 and CSCD 539 may each apply more than once, provided distinct topics are studied.

Thesis or Project

Note: The student is expected to expand their knowledge with a published thesis or to apply their knowledge to a significant project. Projects may be work-related. The thesis or project is defended in a final oral examination of the student's work.

CSCD 600	THESIS (1-16 variable credit)	12
or CSCD 601	RESEARCH REPORT	

Total Credits 49

Students who successfully earn an MS in Computer Science from EWU should be able to do the following:

- analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions;
- apply computer science theory and software development fundamentals to produce computing-based solutions;
- communicate effectively in a variety of professional contexts.