

# COMPUTER SCIENCE, MASTER OF SCIENCE (MS)

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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.

**Required Core—this coursework provides core knowledge in the areas of algorithms, database systems, software engineering, operating systems 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)	5
CSCD 524	ADVANCED SOFTWARE ENGINEERING	5
CSCD 527	MODERN DATABASE SYSTEMS	5

**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, Project or Workplace 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	10
or CSCD 601	RESEARCH REPORT	
or CSCD 595 & CSCD 602	PROFESSIONAL INTERNSHIP and INDUSTRY PROJECT	

Total Credits 50

## Student Learning Outcomes—students will

Student Learning Outcomes—for the Master's in Computer Science may be found at [ewu.edu/csslo](http://www.ewu.edu/csslo) (<http://www.ewu.edu/csslo>)