

Madison University – Distance Education
College of Science and Engineering
Degree Program: Master
Concentration: Computer Science



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CSCI 50502 Intermediate Programming Theory

An in-depth study of the concepts of computer programming theory, problem solving, algorithm development, and coding using a high-level, structured programming language.

Textbook: Programming Pearls, 2nd edition

ISBN#: 0-201-65788-0

CSCI 50531 Comparative Program Languages

Intermediate of assembly and program languages. Topics include: machine representation of data, fixed point, floating point, decimal arithmetic, macros, address modification, bit manipulation, and subroutine linkage.

Textbook: Comparative Programming Languages, 3rd edition

ISBN#: 0-201-56885-3

CSCI 50534 Artificial Intelligence

Introduction to intelligent processes and their performance by a computer. Topics include: computer representation of knowledge, problem solving, game playing, theorem proving, natural language understanding, computer vision, and robotics.

Textbook: Artificial Intelligence: Theory & Practice

ISBN#: 0-8053-2547-6

CSCI 50535 Database Systems

This database systems course offers a comprehensive approach with engaging, real-world examples—users will learn how to successfully plan a database application before building it. The first half of the course provides in-depth coverage of databases from the point of view of the database designer, user, and application programmer, while the second half of the course provides in-depth coverage of databases from the point of view of the DBMS implementor

Textbook: Database Systems: The Complete Book

ISBN#: 0-13-031995-3

CSCI 50536 Network Security

This course provides a practical, up-to-date, and comprehensive survey of network-based and Internet-based security applications and standards. It includes a concise section on the discipline of cryptography—covering algorithms and protocols underlying network security applications, encryption, hash functions, digital signatures, and key exchange.

Textbook: Network Security Essentials

ISBN#: 0-13-035128-8

CSCI 50537 Computer Architecture

This course provides a careful, in depth, non-engineering introduction to the inner workings of modern computer systems. It also features the latest advances in operating system design and computer interconnection.

Textbook: The Architecture of Computer Hardware and Systems Software: An Information Technology Approach

ISBN#: 0-471-073253

MS 600 Master's Thesis

Master's Thesis.
