

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



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CSCI 50505 Networking

Provides an introduction to terms and techniques used in data communications and networking. Topics discussed are terminal equipment, modulation and multiplexing, and transmission of data using various media. Data networking is introduced using Novell as the basis for instruction.

Textbook: Hands-ON Networking Essentials with Projects
ISBN#: 0-619-01628-0

CSCI 50521 Intermediate Data Structures

This course provides a comprehensive view of data analysis, modeling, and classification. It enables students to examine in-depth data requirements in file design. The course takes the student step by step from data entity analysis through data element analysis and physical design considerations.

Textbook: Data Structures with ADA 95, 2nd edition
ISBN#: 0-201-88795-9

CSCI 50522 Computer Law

This course reviews and evaluates established precedent in computer litigation and legislation. It covers: copyrights, patent protection, misappropriation of trade secrets, employee non-competition agreements, ownership of employee-developed programs, contracts to acquire computer systems, licensing, tort liability and computer crime.

Textbook: Internet and Computer Law, 1st edition
ISBN#: 0-314-25295-9

CSCI 50543 Intermediate File Structures

A complete study of files and trees, including: balanced trees, B-trees; external sorting, symbol tables, and file structures. Intermediate study.

Textbook: File Structures: An Object-Oriented Approach with C++
ISBN#: 0-201-874016

CSCI 50544 Intermediate Database Management

An intermediate study of design and implementation of database systems. Topics include: hierarchical, relational, network models, normalization of relations, data integrity and security, and database administration.

Textbook: Object Data Management
ISBN#: 0-201-54748-1

CSCI 50552 Intermediate Database Design

Intermediate study which provides a thorough and systematic treatment of conceptual and logic design. It advocates the use of a joint methodology for conceptual design and functional analysis. Intermediate study.

Textbook: Conceptual Database Design: An Entity Relationship Approach
ISBN#: 0-8053-0244-1

MS 600 Master's Thesis

Master's Thesis.

Textbook:
ISBN#: