

CSCI-MS
Selected Curriculum for

Interest in Database Management and Data Mining

Advising Sheet

Computer Science master's students are required to take one course from **each** of the four groups listed below.

Group "A"

- CSCE 5430 Software Engineering
- CSCE 5450 Programming Languages
- CSCE 5650 Compiler Design

Group "C"

- CSCE 5150 Analysis of Algorithms
- CSCE 5170 Graph Theory
- CSCE 5400 Automata Theory

Group "B"

- CSCE 5580 Computer Networks
- CSCE 5610 Computer System Architecture
- CSCE 5640 Operating Systems Design

Group "D"

- CSCE 5210 Artificial Intelligence
- CSCE 5350 Fundamentals of Database Systems
- CSCE 5550 Computer Security

Suggested Courses:

| | | | |
|--------------------------|-----------------------|---|-------|
| <input type="checkbox"/> | CSCE 5170 | Graph Theory | 3 sch |
| <input type="checkbox"/> | CSCE 5200 | Information Retrieval and Web Search | 3 sch |
| <input type="checkbox"/> | CSCE 5210 | Artificial Intelligence | 3 sch |
| <input type="checkbox"/> | CSCE 5215 | Machine Learning | 3 sch |
| <input type="checkbox"/> | CSCE 5216 | Pattern Recognition | 3 sch |
| <input type="checkbox"/> | CSCE 5350 | Fundamentals of Database Systems | 3 sch |
| <input type="checkbox"/> | CSCE 5360 | Implementations & Practices of Database Systems | 3 sch |
| <input type="checkbox"/> | CSCE 5370 | Distributed and Parallel Database Systems | 3 sch |
| <input type="checkbox"/> | CSCE 5380 | Data Mining | 3 sch |
| <input type="checkbox"/> | CSCE 5550 | Computer Security | 3 sch |
| <input type="checkbox"/> | CSCE 5933/5390 | Topics in CSCE, Topic: Multimedia Computing | 3 sch |

Major Professors Comments/Suggestions:

- For MS with thesis, the total number of hours required is 30.
- For MS without thesis, the total number of hours required is 36.
- To continue in good standing, a student must maintain a 3.0 GPA overall.
- **Only one organized course (not less than 3 sch), and up to 2 Internship courses (max 2 each) may be placed on the MS degree plan. All outside courses must have prior approval by the student's major professor with a justification written on the back of the degree plan.**