

CSCI-MS
Selected Curriculum for
Interest in Intelligent Systems
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 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 5225 | Digital Image Processing | 3 sch |
| <input type="checkbox"/> | CSCE 5270 | Computer-Human Interfaces | 3 sch |
| <input type="checkbox"/> | CSCE 5290 | Natural Language Processing | 3 sch |
| <input type="checkbox"/> | CSCE 5350 | Fundamentals of Database Systems | 3 sch |
| <input type="checkbox"/> | CSCE 5380 | Data Mining | 3 sch |
| <input type="checkbox"/> | CSCE 5933/5300 | Intro to Big Data and Data Science | 3 sch |
| <input type="checkbox"/> | CSCE 6260 | Adv Topics Pattern Rec and Image Proc. | 3 sch |
| <input type="checkbox"/> | CSCE 6290 | Adv Topics Human-Machine Intelligence | 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.*
- *Maximum of one CSCE 5934 Directed Study and/or CSCE 5900-5930 Special Problems course is permitted and the CSCE 5932 Internship course may not be included on the degree plan.*