

CSCI-MS
Selected Curriculum for

Interest in Computational Science
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 5150 | Analysis of Algorithms | 3 sch |
| <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 5213 | Modeling and Simulation | 3 sch |
| <input type="checkbox"/> | CSCE 5215 | Machine Learning | 3 sch |
| <input type="checkbox"/> | CSCE 5216 | Pattern Recognition | 3 sch |
| <input type="checkbox"/> | CSCE 5220 | Computer Graphics | 3 sch |
| <input type="checkbox"/> | CSCE 5230 | Methods of Numerical Computations | 3 sch |
| <input type="checkbox"/> | CSCE 5400 | Automata Theory | 3 sch |
| <input type="checkbox"/> | CSCE 5810 | Biocomputing | 3 sch |
| <input type="checkbox"/> | CSCE 5820 | Computational Epidemiology | 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 unorganized 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.*