

CSCI-MS
Selected Curriculum for

Interest in Software Engineering
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 5270 | Computer-Human Interfaces | 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 5430 | Software Engineering | 3 sch |
| <input type="checkbox"/> | CSCE 5450 | Programming Languages | 3 sch |
| <input type="checkbox"/> | CSCE 5650 | Compiler Design | 3 sch |
| <input type="checkbox"/> | CSCE 5655 | Principles of Compiler Optimization | 3 sch |
| <input type="checkbox"/> | CSCE 5933 | Software Testing and Empirical Methodologies | 3 sch |
| <input type="checkbox"/> | CSCE 5933 | Usability Testing | 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.*