

**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"/> | <b>CSCE 5270</b> | Computer-Human Interfaces                       | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5350</b> | Fundamentals of Database Systems                | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5360</b> | Implementations & Practices of Database Systems | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5430</b> | Software Engineering                            | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5450</b> | Programming Languages                           | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5650</b> | Compiler Design                                 | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5655</b> | Principles of Compiler Optimization             | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5933</b> | Software Testing and Empirical Methodologies    | 3 sch |
| <input type="checkbox"/> | <b>CSCE 5933</b> | Usability Testing                               | 3 sch |

***Major Professors Comments/Suggestions:***

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- *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.*