

**CSCI-MS
Selected Curriculum for**

**Interest in Computer 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 5160 | Parallel Processing and Algorithms | 3 sch |
| <input type="checkbox"/> | CSCE 5215 | Machine Learning | 3 sch |
| <input type="checkbox"/> | CSCE 5510 | Wireless Communications | 3 sch |
| <input type="checkbox"/> | CSCE 5520 | Wireless Networks and Protocols | 3 sch |
| <input type="checkbox"/> | CSCE 5580 | Computer Networks | 3 sch |
| <input type="checkbox"/> | CSCE 5610 | Computer System Architecture | 3 sch |
| <input type="checkbox"/> | CSCE 5620 | Real-Time Operating Systems | 3 sch |
| <input type="checkbox"/> | CSCE 5640 | Operating Systems Design | 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 5730 | Digital CMOS VLSI Design | 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 33.
- 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.**