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 “B”**
- ☐ CSCE 5580 Computer Networks
- ☐ CSCE 5610 Computer System Architecture
- ☐ CSCE 5640 Operating Systems Design

**Group “C”**
- ☐ CSCE 5150 Analysis of Algorithms
- ☐ CSCE 5170 Graph Theory
- ☐ CSCE 5400 Automata Theory

**Group “D”**
- ☐ CSCE 5210 Artificial Intelligence
- ☐ CSCE 5350 Fundamentals of Database Systems
- ☐ CSCE 5550 Computer Security

**Suggested Courses:**
- ☐ CSCE 5200 Information Retrieval and Web Search 3 sch
- ☐ CSCE 5210 Artificial Intelligence 3 sch
- ☐ CSCE 5215 Machine Learning 3 sch
- ☐ CSCE 5216 Pattern Recognition 3 sch
- ☐ CSCE 5225 Digital Image Processing 3 sch
- ☐ CSCE 5270 Computer-Human Interfaces 3 sch
- ☐ CSCE 5290 Natural Language Processing 3 sch
- ☐ CSCE 5350 Fundamentals of Database Systems 3 sch
- ☐ CSCE 5380 Data Mining 3 sch
- ☐ CSCE 5933/5300 Intro to Big Data and Data Science 3 sch
- ☐ CSCE 6260 Adv Topics Pattern Rec and Image Proc. 3 sch
- ☐ CSCE 6290 Adv Topics Human-Machine Intelligence 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 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.