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COSC 501 Fundamentals of Data Structures and Algorithms (6 units) COSC 502 Computer Organizational and Assembly Language for Non-CS/IS Majors (3 units) MATH 263 Discrete Mathematics (3 units)

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No prerequisites necessary

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- 1. COSC 519 Operating Systems Principles (3 units)
- 2. COSC 578 Database Management Systems (3 units)
- 3. COSC 600 Advanced Structures and Algorithm Analysis (3 units)
- 4. COSC 612 Software Engineering (3 units)
- 5. COSC 650 Computer Networks (3 units)

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1. COSC 880 COSC Project (3 units)

2. COSC 897/COSC 898 Computer Science Thesis (6 units)

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3. COSC 757 Data Mining (3 units)

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- 1. COSC 657 Database Management Systems 11(3 units)
- 2. COSC 750 Neural Networks and Deep Learning (3 units)
- 3. COSC 710 Social Network Analysis (3 units)
- 4.COSC 760 Big Data Analytics (3 units)

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*COSC 501, COSC 502, and MATH 263 fulfil prerequisite requirements only and cannot be counted towards CSMS elective requirements; these courses do not fulfil any CSMS degree requirements and should not be taken unless assigned at admission

**Students choosing the thesis option will complete 15 units of Core Courses, 6 units of thesis coursework, 9 units of Track Courses, and 3 units of Elective Courses. Students choosing the non-thesis option will complete 15 units of Core Courses, 3 units of P