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

- \*\*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 Project coursework, 9 units of Track Courses, and 6 units of Elective Courses
- \*\*COSC 880 Project, COSC 885 Project Continuum, COSC 897/COSC 898 Computer Science Thesis require a proposal and program permission to enroll

Awarding of CSMS degree also subject to additional graduation requirements, including but not limited to: Overall GPA of 3.0, 7-year time limit starting with the first course used to fulfil degree requirements, no more than two 500-level courses; See Graduate Catalog for complete details (catalog.towson.edu/graduate)

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COSC 601 Software Requirements Engineering (3 units)

COSC 602 Computer Vision and Image Processing (3 units)

COSC 603 Software Testing and Maintenance (3 units)

COSC 605 Human Factors and Human Computer Interaction (3 units)

COSC 609 Software Project Management (3 units)

COSC 611 Computer Simulation (3 units)

COSC 617 Advanced Web Development (3 units)

COSC 618 Enterprise Architecture (3 units)

COSC 645 Applied Cryptology (3 units)

COSC 647 Application Software Security (3 units)

COSC 650 Computer Networks (3 units)

COSC 670 Special Topics in Computer Science (3 units)

COSC 683 Security and Internet Algorithms (3 units)

COSC 685 Information Security and Risk Management (3 units)

COSC 686 Computer Graphics (3 units)

COSC 695 Independent Study in Computer Science (3 units)

COSC 697 Graduate Internship (3 units) - requires permission to enroll

COSC 710 Social Network Analysis (3 units)

COSC 715 Robotics (3 units)

COSC 716 Object Oriented Methodology

COSC 732 Wireless Networks and Mobile Communications (3 units)

COSC 734 Network Security (3 units)

COSC 735 Advanced Topics in Computer Networks (3 units)

COSC 745 Advanced Topics in Computer Security (3 units)

COSC 750 Neural Networks and Deep Learning (3 units)

COSC 757 Data Mining (3 units)

COSC 760 Big Data Analytics (3 units)