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# M.S. COMPUTER SCIENCE DEGREE REQUIREMENTS

## *PREREQUISITES*

Students entering the program with a Bachelor's degree other than computer science may be required to take *COP 3411 Data Structures and Algorithms I* and/or *COP 4412 Data Structures and Algorithms II* (depending on their programming experience) as well as *COP 4634 System & Networks I* and *COP 4635 System & Networks II*.

Depending on the individual student's academic background, we strongly encourage students to take additional courses in mathematics including *MAC 2311 Calculus I* and *MAC 2312 Calculus II* and *MAS 3105 Linear Algebra*. For a description of course content of the undergraduate courses visit the UWF Undergraduate Catalog [here](#).

## *REQUIRED COURSES (14 CREDIT HOURS)*

The following lists the required courses for the degree program

- **CDA 6415 Advanced Computer Systems** (no prerequisite but would expect knowledge of *COP 4634 System & Networks I*, *COP 4635 System & Networks II* or equivalent).
- **COP 6025 Advanced Programming Languages** (prerequisite is *COP 4020 Programming Languages*).
- **6 credit hours of project or thesis.**

## *ELECTIVES (18 CREDIT HOURS)*

In addition to the required courses, students must choose 18 credit hours of elective course work. Courses offered on a regular basis include:

- **COP 6727 Advanced Database Systems**, prerequisite is *COP 4710* or *COP 5725*.
- **CEN 5990 Advanced Topics in Robotics**
- **CAP 5990 Applications of Computing**
- **CNT 6107 Advanced Computer Networks**
- **CAP 5837 Computer Simulation and Modeling**
- **CAP 5771 Data Mining**, prerequisite is *COP 4710* or *COP 5725*.
- **COP 5725 Database Systems**
- **COP 5990 Distributed Architecture**
- **CAP 5600 Introduction to Artificial Intelligence**
- **COP 5990 Advanced Computer Graphics**
- **COT 5930 Seminar in Computer Science: Pervasive Computing**
- **COT 5205 Theory of Computation**
- **COT 6415 Computation and Complexity**