Master of Science in Computer and Information Sciences Degree Requirements

The master of science in computer and information sciences degree is conferred upon those candidates who successfully complete an approved program of study consisting of a minimum of 33 semester hours of graduate credit (of which no more than nine may be transfer credits) with a cumulative GPA of 3.0.

All specializations require the four core courses below plus the courses outlined within each specialization. Any specialization with fewer than 18 credit hours will not appear on students' transcripts.

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| [CSIS 601](http://catalogs.cofc.edu/graduate/csis-601-data-modeling-and-database-design-3.htm" \o "CSIS 601 Data Modeling and Database Design (3)" \t "_self) | Data Modeling and Database Design |
| [CSIS 602](http://catalogs.cofc.edu/graduate/csis-602-foundations-of-software-engineering-3.htm) | Foundations of Software-Engineering |
| [CSIS 603](http://catalogs.cofc.edu/graduate/csis-603-object-oriented-design-patterns-3.htm) | Object-Oriented Design Patterns |
| [CSIS 604](http://catalogs.cofc.edu/graduate/csis-604-distributed-computer-systems-architecture-3.htm) | Distributed Computer Systems Architecture |

**Software Engineering Specialization**

The student will complete:

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| [CSIS 656](http://catalogs.cofc.edu/graduate/csis-656-software-systems-design-and-implementation-3.htm) | Software Systems Design and Implementation |

Either:

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| [CSIS 654](http://catalogs.cofc.edu/graduate/csis-654-software-requirements-analysis-and-specifications-3.htm) | Software Requirements Analysis and Specification **or** |
| [CSIS 658](http://catalogs.cofc.edu/graduate/csis-658-software-testing-and-maintenance-3.htm) | Software Testing and Maintenance |

And two additional courses, chosen from among the following:

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| [CSIS 654](http://catalogs.cofc.edu/graduate/csis-654-software-requirements-analysis-and-specifications-3.htm) | or 658 if not used above |
| [CSIS 634](http://catalogs.cofc.edu/graduate/csis-634-project-change-and-management-3.htm) | Project Change and Management |
| [CSIS 657](http://catalogs.cofc.edu/graduate/csis-657-embedded-systems-design-3.htm) | Embedded Systems Design |
| [CSIS 659](http://catalogs.cofc.edu/graduate/csis-659-service-oriented-computing-3.htm) | Service-Oriented Computing |
| [CSIS 672](http://catalogs.cofc.edu/graduate/csis-672-human-computer-interaction-3.htm) | Human-Computer Interaction |
| [CSIS 690](http://catalogs.cofc.edu/graduate/csis-690-special-topics-in-computing-3.htm) | Special Topics (if subject matter is appropriate for the Software Engineering specialization as determined by the Joint Committee for the MS-CSIS) |