The Department of Computer Science and Software Engineering offers the doctorate (Ph.D.) degree, a master of science (M.S.) and a master of software engineering (M.Sw.E.). All degrees are designated with the major of computer science and software engineering. An information assurance option is also available for students studying for the Ph.D. or the M.Sw.E. degree online and on campus.

To enter the M.Sw.E. program students must hold a bachelor’s degree or its equivalent from an institution of recognized standing. The student also must have the prerequisite undergraduate experience in areas of computer science and/or software engineering. All applications are reviewed by the Graduate Admissions Committee. In general, only those students who have at least a 3.0/4.0 undergraduate grade point average at the time of graduation will be considered for the graduate program.

However, the committee does not automatically discard applicants that fail to meet these requirements. It takes a “whole person” approach to evaluating applications to our graduate program. Instead of just looking at a single test score (or grade point average), the committee takes into account all the information that the applicant provides. If one measure is below the minimum, it will expect other items to be commensurately high enough to balance it.

**Requirements for M.Sw.E. Degree**

- All international applicants must submit Test of Spoken English (TSE) scores
- There is no residency, foreign language or minor requirements for this degree
- 33 semester credit hours of graduate (6000 and 7000 level) course work with concentration in software engineering, networks operating systems or human/computer interface, including three credit hours for the software engineering design project

**Special Requirements: Students with degrees in fields other than computer science and software engineering**

Although most of our graduate students have a degree in computer science, software engineering, or computer engineering, a number of them have formal training in other disciplines. We encourage strong applicants from many backgrounds, provided they can show potential to complete the graduate degree requirements in computer science and software engineering.

For those applicants without or with little formal training and/or experience in Computer Science and Software Engineering, the following prerequisite areas are considered essential to succeed in our graduate programs

1. Fundamentals of computer science, including programming in C, C++, or Java, and data structures
2. Mathematical Foundations of computer science, including discrete structures, algorithms design and analysis
3. Computer organization and system software, including assembly language and operating systems

These courses are not available through the distance education program.

**Transfer from Other Institutions**

Upon recommendation of the student’s advisory committee, a maximum of six semester hours of related graduate work that has been satisfactorily completed (B or better) at other approved graduate schools may be applied toward
the master’s degree course requirements. Transfer credit for the Ph.D. is determined by the student’s advisory committee.

Course List

- COMP 6126 Database System I 3 hours
- COMP 6206 Theoretical Computer Science 3 hours
- COMP 6326 Design and Analysis of Computer Network 3 hours
- COMP 6336 Parallel and Distributed Computing 3 hours
- COMP 6406 Fundamentals of Computer Graphics 3 hours
- COMP 6606 Artificial Intelligence 3 hours
- COMP 6616 Artificial Intelligence Programming 3 hours
- COMP 6706 Software Process 3 hours
- COMP 6716 Software Quality Assurance 3 hours
- COMP 7126 Database Systems II 3 hours
- COMP 7226 Programming Language Design and Specifications 3 hours
- COMP 7326 Advanced Computer Networks 3 hours
- COMP 7346 High Speed Networks 3 hours
- COMP 7406 Advanced Computer Graphics 3 hours
- COMP 7506 Advanced Topics In Operating Systems 3 hours
- COMP 7606 Computational Intelligence 3 hours
- COMP 7616 Computational Cognition 3 hours
- COMP 7706 Software Architecture 3 hours
- COMP 7716 Software Environments 3 hours
- COMP 7726 Software Re-Engineering 3 hours
- COMP 7736 Formal Methods for Software 3 hours
- COMP 7956 Introduction to Graduate Study in Computer Science and Software 3 hours
- COMP 7976 Special Topics 1-3 hours
- COMP 7986 Design Project 1-15 hours
- COMP 8326 Research Topics in Computer Networks 3 hours

Application Procedures

- Fill out the online graduate application at app.applyyourself.com/?id=auburn-g (you will be required to create an account)
- Provide TSE scores
- For more information visit grad.auburn.edu

www.eng.auburn.edu/comp