

COMPUTER SCIENCE

Degree: Master of Science
 Department: Computer Science
 Building 79, Room 102
 (850) 474-2542
<http://www.cs.uwf.edu/computerscience@uwf.edu>
 College: Arts and Sciences

The Computer Science Department offers two graduate specializations: Computer Science (CS) and Software Engineering (SE).

Students entering the CS specialization normally have an undergraduate degree in Computer Science but may come from another scientific discipline. A graduate of this specialization is a software and hardware specialist with a deep understanding of the nature of algorithms in terms of expression, development, resource usage and limitations. He/she is prepared to develop software at any level of abstraction, from machine code to distributed processes. He/she is prepared for a career as a programmer or advanced software developer and may consider continuing on to doctoral studies.

Students entering the SE specialization may have an undergraduate degree in CS or CIS but may also come from another discipline. A graduate of this specialization is a system specialist, prepared perform various activities within a software life-cycle such as requirements analysis, design, implementation, testing, maintenance, project management, process improvement, quality assurance, etc. in support of the development of high-quality software systems that meet client needs. He/she may also be deeply familiar with a specific problem domain (e.g. medical software, chemistry, data acquisition systems, computer games) and with software development issues associated with that domain. Graduates are also prepared to continue on to doctoral studies.

Numerous local and regional companies and governmental agencies employ computer science students in cooperative education programs (co-op).

The department annually awards several scholarships, fellowships, and out-of-state tuition waivers to new and returning students. The department also has limited opportunities for teaching/research assistantships for new and returning students. Contact the department chairperson for information.

ADMISSION REQUIREMENTS

General university requirements for admission to graduate programs are described in the Graduate Admissions section. Graduate departments are currently redeveloping departmental admission guidelines to govern admission to their specific graduate programs. Refer to the graduate department for more details regarding acceptable graduate admission tests, minimum test score requirements, etc. In addition to the general university requirements, this department requires a letter of intent stating the goals of the applicant.

COMPUTER SCIENCE SPECIALIZATION

CDA	6415	Advanced Computer Systems	4
COP	6025	Advanced Programming Languages.....	4
		6000 level advisor approved elective.....	3
		5000/6000 level advisor approved electives	15

Choose one:

CIS	6971	Thesis	6
		Course offered as 1-6 sh per semester	
COT	6931	Computer Science Project.....	6
		(normally 3 sh in consecutive semesters)	

SOFTWARE ENGINEERING SPECIALIZATION

CEN	6016	Software Engineering Process	4
CEN	6095	Software Engineering Practice and Tools.....	4
		6000 level advisor approved elective.....	3
		5000/6000 level advisor approved electives	15

Choose one:

CIS	6971	Thesis	6
		Course offered 1-6 sh per semester	
COT	6931	Computer Science Project.....	6
		Normally 3 sh in consecutive semesters	

Representative electives for Software Engineering students include courses regarding Software Specifications, Software Design, Software Testing and Verification, Capability Maturity Model Integration (CMMI) in Software Engineering, Data Mining, and Database Administration.