

# Computing (PhD)

## Degree Requirements

---

---

### Doctor Of Philosophy In Computing

The interdisciplinary Doctor of Philosophy degree in Computing integrates coursework and research projects from three related disciplines: computer science, information systems, and information technology. The program emphasizes advanced discovery and the development of solutions to research-focused problems in the areas of cyber assurance, risk assessment, forensics, and data analytics. Ph.D. graduates are eligible for research positions in academia, industry, and government.

The Ph.D. degree is awarded to candidates who have demonstrated a capacity for original research, have made a meaningful contribution to knowledge in the computing discipline, and have successfully defended a dissertation.

### Requirements For Admission

To apply to the PhD in computing degree program, please visit the University of South Alabama (USA) Graduate School website.

In addition to the general admission requirements of the USA Graduate School, admission requirements for the Computing Ph.D. program are:

1. A statement of purpose indicating the student's personal goals and research interests. Because prospective students are matched with a faculty mentor, competitive applications align with the research areas of School of Computing graduate faculty.
2. Three letters of recommendation from persons able to speak directly to the applicant's ability to engage in advanced discovery and contribute new knowledge to the discipline.
3. Curriculum vita
4. An official transcript from each college or university attended.
5. A baccalaureate or graduate degree in Computer Science, Information Systems, Information Technology or a closely related field. A graduate degree is not required for admission.
6. An undergraduate minimum GPA of 3.3 overall or a graduate minimum GPA of 3.5 overall (4 point scale).
7. Official scores for the Graduate Records Examination (GRE) including the AW portion. 1. Applicant whose highest degree is a graduate degree from an accredited institution of higher education will not be required to provide GRE scores.
8. A completed application for admission to the Graduate School
9. For international students, an official TOEFL, IELTS, iTEP, or Pearson (PTE Academic) score, or an equivalent level of competence as exhibited by a bachelor or graduate degree from an accredited university in the United States is required. The minimum required test scores are:
  - a. TOEFL – 525 on the paper version, 197 on the computer version, or 71 on the internet version
  - b. IELTS – 6.0
  - c. iTEP – 3.7
  - d. Pearsons (PTE Academic) - 48

Admission may be granted by the Director of Graduate Studies, when supported by a vote of the Graduate Faculty, in special cases where a holistic evaluation of the applicant's credentials is appropriate.

Admission is competitive and the decision is based on a review of all submitted admission materials. A personal interview may be requested. Applicants are encouraged to submitted samples of prior work. All admissions materials should be submitted online at:

<https://southalabama.liaisoncas.com/applicant-ux/#/login>

### Program Requirements

To qualify for the Ph.D. in Computing, a minimum of 72 semester hours of approved graduate credit is required and the following program of study must be completed with a grade of "B" or better in all course work.

Required Course Work (18 hours)		Credit Hours
CIS 612	Cybersecurity	3 hrs
CIS 626	Tools for Analyzing Big Data	3 hrs
ISC 629	Computing Ecosystems	3 hrs
ISC 673	Digital Investigations – Theory and Practice	3 hrs
IST 675	Advanced Topics in Information Systems	3 hrs
ISC 686	Advanced Topics in Risk Analysis	3 hrs

### Electives (24 Hours)

Student will complete 24 semester hours of 500-level or higher approved graduate coursework. A maximum of 12 semester hours of CIS 694 Directed Study may be counted towards fulfilling the electives requirement.

### Dissertation (30 Hours)

A primary educational objective of the Ph.D. program is for students to develop the ability to conduct advanced research and contribute new knowledge to the discipline. To that end, the student will complete 30 hours of CIS 799 Dissertation.

### Academic Standards

Student must maintain a cumulative 3.0 GPA in order to be in good standing. Failure to maintain a cumulative 3.0 GPA will result in the student being placed on academic probation. The School of Computing Director of Graduate Programs may recommend dismissal of a student who does not maintain good academic standing or is not making sufficient progress.

### Graduate Assistantships

Graduate assistantships are available annually on a competitive basis. The application deadline is April 1. Information regarding assistantships is available on the School of Computing website.

### Comprehensive Examinations

Doctoral students must pass a comprehensive examination. The format of the examination will be determined by the comprehensive examination committee. Normally the examination is based on the required coursework. Failure to pass the comprehensive examination within three attempts will result in dismissal from the program.

### Candidacy

A doctoral student is admitted to candidacy upon successful completion of a comprehensive examination. Candidacy indicates the student has completed the required coursework and is eligible to begin the dissertation research project.

### Dissertation Hours And Defense

Doctoral candidacy is required to enroll in CIS 799 Dissertation. At the discretion of the Director of Graduate programs, directed study credit constituting preliminary preparation for the dissertation study may be substituted for CIS 799. While only 30 hours of CIS 799 may be counted toward the degree, a student must continuously enroll in at least 1 credit hour of dissertation during the fall and spring semesters until the dissertation is successfully defended. Failure to enroll continuously without the written approval of the Director of the Graduate program may lead to dismissal from the program.

A doctoral candidate must successfully defend a dissertation prospectus. The final oral defense of the dissertation is scheduled after the dissertation study has been completed and prepared in written form. Revisions to the written dissertation may be required for final approval by the dissertation committee and as a result of a review by the Graduate School.

### Transfer Credit

A maximum of 24 semester hours of graduate credit earned at an approved graduate school may be counted toward the Ph.D. program. Transfer credit may be approved after the completion of nine (9) semester hours of credit at the University of South Alabama. Transfer credit must be approved by the School of Computing Director of Graduate programs with the recommendation of the student's advisor.

### Time Limit

All requirements for the PhD in Computing degree must be completed within ten (10) calendar years from the date of matriculation as a School of Computing PhD student. This ten calendar year constraint also applies to all transfer credit.

After reaching candidacy, a student has a maximum of 3 years to complete the dissertation. A student may apply to the Director of Graduate programs for an extension to complete the degree.

## Graduation Plan

First Year			Credit Hours
Fall Semester Courses			12
ISC 673	Digital Investigations	3 hrs	
CSC 612	Cybersecurity	3 hrs	
ISC 629	Comp Ecosystems	3 hrs	
Elective	Elective	3 hrs	
Spring Semester Courses			12
ISC 686	Risk Analysis	3 hrs	
CSC 626	Advanced Big Data	3 hrs	
ISC 675	Information Systems	3 hrs	
Elective	Elective	3 hrs	
Second Year			Credit Hours
Fall Semester Courses			12
CIS 799	Dissertation	3 hrs	
CIS 799	Dissertation	3 hrs	
Elective	Elective	3 hrs	
Elective	Elective	3 hrs	
Spring Semester Courses			12
CIS 799	Dissertation	3 hrs	
CIS 799	Dissertation	3 hrs	
Elective	Elective	3 hrs	
Elective	Elective	3 hrs	
Third Year			Credit Hours
Fall Semester Courses			12
Elective	Elective	3 hrs	

CIS 799	Dissertation	3 hrs	
CIS 799	Dissertation	3 hrs	
CIS 799	Dissertation	3 hrs	
Spring Semester Courses			12
Elective	Elective	3 hrs	
CIS 799	Dissertation	3 hrs	
CIS 799	Dissertation	3 hrs	
CIS 799	Dissertation	3 hrs	

---

## Department Information

---