

DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE

Student Learning Outcomes

Students graduating from this program will:

- Demonstrate a thorough degree of knowledge in the discipline
- Demonstrate an ability to use proper investigation techniques for the discipline
- Use oral and written forms of communication to convey their ideas

Program Structure

Total Credits Required for Graduation: 42

Residence Requirements: Ph.D. students must satisfy the doctoral residency requirement by satisfactory completion of at least 18 credits in no more than 24 consecutive months. When satisfying the residency requirement, all Ph.D. students are subject to the following restrictions:

- The doctoral residency requirement must be satisfied no later than the end of the semester in which the student completes his or her comprehensive examinations.
- Students must achieve a cumulative graduate grade-point average of at least 3.0 in all courses counted toward satisfying the residency requirement.

Admission Requirements

A student who meets the minimum discipline requirements stated below will be considered for regular admission to the Ph.D. program. A student, who does not meet some of the requirements but shows high potential for advanced-level work, may be considered for provisional admission. Admission also depends on factors such as number of seats available, resources available in the area of student's interest, the quality of previous work, etc. A student who does not qualify for admission to the Ph.D. program, may be considered for admission to the M.S. in computer science program.

Minimum Recommended Ph.D. Admission Requirements:

1. GPA (Bachelor or equivalent Degree): 3.5 in the scale of 4 (or equivalent)
2. GPA (MS or equivalent Degree if any): 3.5 in the scale of 4 (or equivalent)
3. GRE (Quantitative) minimum score: 80%
4. TOEFL iBTS minimum Score: 89 or IELTS minimum score: 6.5
5. Prior Projects or Publications (Preferred)*
6. Internationally Acceptable Accreditation of the Prior Degree Awarding Institutes

* Prior research project and/or publication record is not required for admission into CS Ph.D. program. However, doctoral faculty members give very high value to the students with such backgrounds.

Program Requirements

| Code | Title | Credits |
|-------------------------------------|--|-----------|
| Computer Science Coursework: | | |
| COMP-SCI 5540 | Principles of Big Data Management | 3 |
| COMP-SCI 5565 | Introduction to Statistical Learning | 3 |
| COMP-SCI 5582 | Computer Vision | 3 |
| COMP-SCI 5578 | Multimedia Communication | 3 |
| COMP-SCI 5546 | Distributed Computing Systems | 3 |
| COMP-SCI 5567 | Deep Learning | 3 |
| COMP-SCI 5576 | Blockchain Technologies | 3 |
| COMP-SCI 5577 | Internet of Things | 3 |
| COMP-SCI 5592 | Design and Analysis of Algorithms | 3 |
| CSEE 5690 | Advanced Special Topics (Research and Experimental Design) | 3 |
| COMP-SCI 5699A | Research And Dissertation Research In Computer Science | 12 |
| Total Credits | | 42 |

Total Credit Hours: 42