COMPUTER SCIENCE AND ENGINEERING

Learning Outcomes

Master of Engineering (M.Eng.)

1. Graduates will be able to demonstrate understanding of advanced core principles and methods from selected sub-fields of Computer Science and Engineering at a depth consistent with their course of study.
2. Graduates will be able to apply their knowledge of selected sub-fields of Computer Science and Engineering to formulate and solve engineering problems.
3. Graduates will be able to analyze and synthesize knowledge within the field of Computer Science and Engineering to address a complex problem of practical relevance.
4. Graduates will be able to demonstrate proficiency in written communication appropriate to their discipline.
5. Graduates will be able to demonstrate an understanding of and a commitment to, academic integrity and the standards for professional practice within Computer Science and Engineering.

Master of Science (M.S.)

1. Graduates will be able to demonstrate understanding of advanced core principles and methods from selected sub-fields of Computer Science and Engineering at a depth consistent with their course of study.
2. Graduates will be able to apply their knowledge of selected sub-fields of Computer Science and Engineering to formulate and solve engineering problems.
3. Graduates will be able to analyze and synthesize knowledge within the field of Computer Science and Engineering to extend existing knowledge through a research experience or a course-based culminating experience.
4. Graduates will be able to demonstrate proficiency in oral and written communication appropriate to their discipline.
5. Graduates will be able to demonstrate an understanding of, and a commitment to, the standards of scholarship and research integrity within Computer Science and Engineering.

Doctor of Philosophy (Ph.D.)

1. Graduates will be able to demonstrate an understanding of advanced core principles and methods as well as modern research findings from selected sub-fields of Computer Science and Engineering (CSE) at a depth appropriate for a Ph.D. candidate.
2. Graduates will be able to apply their knowledge of selected sub-fields of Computer Science and Engineering in formulating and executing a research plan.
3. Graduates will be able to demonstrate the ability to analyze and synthesize appropriate literature to critically review their work in the context of the literature, and to formulate and defend conclusions based on their research that represent new scholarly contributions.
4. Graduates will be able to demonstrate high levels of proficiency in oral and written communication.
5. Graduates will be able to demonstrate an understanding of and a commitment to, the standards for scholarship and research integrity.