

Department of Biosystems Engineering

Graduate Programs

The Department of Biosystems Engineering offers graduate programs leading to M.Eng., M.Sc., and Ph.D. degrees. The graduate programs in the department focus on applications of engineering in biological systems. Strong emphasis is placed on assisting graduate students to gain a broad range of skills and experience in conducting interdisciplinary research, in understanding the interrelationships among physical and biological factors, and in written and oral communication.

Master of Engineering in Biosystems Engineering

The Master of Engineering degree is intended for individuals desiring an advanced degree with an emphasis on the practice of engineering. A minimum of 30 credit hours of coursework is required. The following conditions must be met:

1. A minimum of 18 credit hours must be taken at the 7000 level. The remaining credit hours must be taken at the 3000 level or above.
2. A minimum of 18 credit hours must be taken from any of the engineering departments, including a minimum of 15 credit hours from the Department of Biosystems Engineering.

It is expected that you should be able to complete the Master of Engineering program in approximately 12 months. It is unlikely that students will receive a research stipend when enrolled in the Master of Engineering program.

Master of Science in Biosystems Engineering

The Master of Science degree is intended for individuals desiring an advanced degree with an emphasis on engineering research. A minimum of 12 credit hours of coursework is required and a thesis must be submitted based on original research conducted by the student. The research will be supervised by one of our professors.

It is expected that you should be able to complete the Master of Science degree in two years or less. Research stipend support is not guaranteed, however, the majority of M.Sc. students in the Department of Biosystems Engineering do receive financial support either in the form of a scholarship or research stipend.

Doctor of Philosophy in Biosystems Engineering

The Doctor of Philosophy degree is the highest degree offered by the Department of Biosystems Engineering. Students will work with an academic advisor; however, they must demonstrate an ability to formulate and complete an original research project. A minimum of 12 credit hours of coursework is required and a thesis must be submitted based on original research conducted by the student.

It is expected that you will be able to complete the Doctor of Philosophy degree in three to four years. Research stipend support is not guaranteed, however, the majority of Ph.D. students in the Department of Biosystems Engineering do receive financial support either in the form of a scholarship or research stipend.