GENETICS (M.S.)

https://colsa.unh.edu/mcbs/genetics-graduate-programs/genetics-ms

Description

The University of New Hampshire graduate program in genetics provides outstanding and diverse research opportunities in genetics and genomics. As an interdisciplinary program made up of faculty from multiple programs and from the Hubbard Center for Genome Studies, the genetics program integrates disciplines ranging from molecular and cellular biology to environmental and evolutionary genetics and genomics, in microbial, plant, and animal systems.

Requirements

The coursework for the Master of Science degree is formulated with input from the student’s guidance committee. Students admitted to the M.S. program are required to conduct a research project under the guidance of a faculty adviser, write and submit a thesis based on this research, and pass an oral examination covering graduate courses and thesis.

Students must take a minimum of 30 credits, including at least three genetics courses (minimum of 10 credits), preferably covering breadth in genetics, attend MCBS 997 Seminar each semester, present one seminar per year, and write and defend a 6–10 credit thesis (GEN 899 Master’s Thesis) before their guidance committee.

5 Year Accelerated Master’s Degree Requirements

This accelerated five-year program leading to a combined bachelor and master’s degree in genetics is designed for highly motivated and qualified students seeking additional training to further their career goals as a researcher in the life sciences.

Admission to the combined degree program is highly competitive. Students wishing to pursue this option must have a grade point average greater than 3.2 at the time of application. A thesis advisor must be identified during the junior year, and the approval of the advisor must be obtained. Prior to the first semester of the senior year, the student must formally apply through the Graduate School and receive early admission to the Genetics Graduate Program. The requirement for the Graduate Record Examination is waived for combined degree applicants.

Thirty credits of graduate level (800-999) course work (including dual credit courses) must be completed. All requirements for the M.S. degree (including taking three courses with a GEN designation) must be completed. Up to 12 credits taken during the senior year can be applied to both the B.S. and M.S. requirements (dual credit courses); this designation is obtained at the time of registration. Honors senior thesis (GEN 799H) or Honors Investigation (GEN 795H) courses cannot be counted towards the M.S. degree, although GEN 795 can be counted if the student is enrolled concurrently in GEN 895.