

Biology

College of Natural Science and Mathematics
Department of Biology and Wildlife
(907) 474-7671
<http://mercury.bio.uaf.edu>

M.S., M.A.T. Degrees

Minimum Requirements for Degrees: M.S.: 30 credits;
M.A.T.: 36 credits

UAF biology graduate students have extraordinary opportunities to conduct independent biological research in controlled-experiment or field settings, taking advantage of arctic, alpine and boreal environments near campus or at remote locations.

The department has close connections with the NSF taiga Long Term Ecological Research (LTER) site, located about 20 miles from campus. Our students also have access to the tundra LTER site at Toolik Lake, where the UAF Institute of Arctic Biology runs a field station.

Facilities available to graduate students on the Fairbanks campus include small mammal colonies, the Large Animal Research Station, both electron and light microscope laboratories, an imaging laboratory and a greenhouse facility. Students and faculty work on systematic collections in the UA Museum of the North using a variety of approaches from traditional morphology to molecular biology.

The program has strong research emphasis in arctic plant ecophysiology, plant-animal coevolution, insect ecology (terrestrial and aquatic), bird and mammal physiological ecology, vertebrate population dynamics, biology of seabirds, molecular evolution and systematics, pollution ecology, wetland ecology, population genetics, ungulate biology and wildlife management.

Advanced degree recipients gain significant teaching experience conducting labs, and a few take primary responsibility for instruction in a course at the undergraduate level. Our graduates have gone into education at the university, community college and secondary levels. Many find professional positions with state and federal resource agencies, with whom the department faculty maintain close contact.

The Department of Biology and Wildlife has approximately 100 graduate students. The atmosphere is informal and students and faculty interact frequently, not only in small-enrollment classes, but also on field trips and in community and social settings.

Research assistantships are available on a competitive basis. Teaching assistantships in department courses provide excellent experience. Competitive fellowships are available through the UAF Graduate School. Applicants interested in graduate assistantships should contact the department for assistantship application forms.

Graduate Program—M.S. Degree

1. Complete the admission process including the following:
 - a. Submit scores from both the GRE General Test (required) and the GRE Subject Test in Biology (highly recommended).
 - b. If English is not your native language, submit scores from both the Test of Spoken English (TSE) and the Test of Written English (TWE), as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.
2. Complete the general university requirements (page 168).
3. Complete the M.S.—with Thesis degree requirements (page 173).
4. As part of the M.S. degree requirements, complete and pass the departmental written and oral Master's Comprehensive Examination.
5. Minimum credits required30

Graduate Program—M.A.T. Degree

1. Complete the admission process including the following:
 - a. Submit scores from both the GRE General Test (required) and the GRE subject Test in Biology (highly recommended).
 - b. If English is not your native language, submit scores from both the Test of Spoken English (TSE) and the Test of Written English (TWE), as well as TOEFL scores. Requests, including justification, for exceptions to this requirement should be made to the chair of the department.
2. Complete the general university requirements (page 168).
3. Complete the M.A.T. degree requirements (page 173).
4. Minimum credits required36

Note: Persons interested in this degree program should contact the department chair. See Biological Sciences for Ph.D. program.

See Botany.
See Wildlife Biology.
See Zoology.

Note: Page numbers refer to the UAF 2005-2006 academic catalog, which can be viewed online at www.uaf.edu/catalog/.

