

BIOLOGY M.S.T.

All students must meet the Requirements for the Master's Degree (<http://catalogue.uvm.edu/graduate/degreerequirements/requirementsforthemastersdegree/>)

OVERVIEW

Learning goals for MST students are:

- Be able to execute scientific experiments, analyze and communicate experimental results orally and in writing.
- Have a working knowledge of the fundamental literature, concepts and ideas of field of study.
- Have a broad factual and conceptual knowledge of biology.
- Gather knowledge of new techniques and information from laboratory and other courses potentially to use in the classroom.

SPECIFIC REQUIREMENTS

Requirements for Admission to Graduate Studies for the Degree of Master of Science in Teaching

A bachelor's degree from an accredited institution and certification as a teacher of biology or an associated field. At least three years of secondary school teaching. Taking the Graduate Record Examination is not required.

Minimum Degree Requirements

30 credits of graded course work to include a selection of courses in the Departments of Plant Biology and Biology which will broaden and balance the undergraduate work in biology. Courses in 4 of the 5 following areas: anatomy; neurobiology; morphology and systematics; evolution; genetics; developmental biology; and environmental biology. Up to 12 credits of 100-level courses may be used for the above requirements where approved by the advisor and the dean. Appropriate courses in related science departments chosen with the graduate studies committee may be used to complete the required 30 credits. No thesis is required; however, each degree recipient must complete a final written examination.

Comprehensive Examination

The comprehensive examination must be taken by the end of the second year. The examination will cover broad knowledge of the student's discipline. The details and format of the examination and its form (written or oral or both) are decided upon by the Studies Committee and will be discussed with the student well in advance of the exam.

Requirements for Advancement to Candidacy for the Degree of Master of Science in Teaching

All Biology M.S. students who are admitted to the Graduate College are admitted to candidacy for the degree.