

## BIOLOGY AMP

All students must meet the Requirements for the Accelerated Master's Degree Programs

### OVERVIEW

An accelerated master's degree in biology can be earned in a shortened time by applying and being accepted in the junior year of undergraduate work. Biology, Zoology, Neuroscience or Environmental Science B.S. majors should discuss this possibility with the department's graduate program director as soon as they think they might be interested in the program. The AMP M.S. is expected to be earned in one additional year.

Learning goals for AMP 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.

Following formal admission to the Accelerated Master's Program, up to six credits of subsequent Biology course work approved for graduate credit taken in the junior and senior year can be counted toward the degree requirement. Courses must be selected from among:

BIOL 202	Quantitative Biology	3
BIOL 203	Population Ecology	3
BIOL 204	Adv Genetics Laboratory	4
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BIOL 208	Morphology&Evolution Insects	0 or 4
BIOL 209	Field Zoology	0 or 4
BIOL 212	Comparative Histology	0 or 4
BIOL 217	Mammalogy	0 or 4
BIOL 219	Compar/Func Vertebrate Anatomy	4
BIOL 223	Developmental Biology	3
BIOL 225	Physiological Ecology	3
BIOL 238	Winter Ecology	3
BIOL 246	Ecological Parasitology	1 or 3
BIOL 254	Population Genetics	0-4
BIOL 255	Comparative Physiology	0 or 4
BIOL 261	Neurobiology	3

BIOL 262	Neurobiology Techniques	4
BIOL 263	Genetics Cell Cycle Regulation	3
BIOL 264	Community Ecology	3
BIOL 265	Developmental Molecular Genetics	3
BIOL 266	Neurodevelopment	3
BIOL 267	Molecular Endocrinology	4
BIOL 270	Speciation and Phylogeny	3
BIOL 271	Evolution	3
BIOL 275	Human Genetics	3
BIOL 277	Sociobiology	3
BIOL 280	Molecular Ecology	0 or 4
BIOL 286	Forensic DNA Analysis	3
BIOL 295	Advanced Special Topics (with permission)	0-18
BIOL 296	Advanced Special Topics (with permission)	1-18
BIOL 372	Cutting Edge Topics	2
BIOL 381	Special Topics (with permission)	0-4

### SPECIFIC REQUIREMENTS

#### Requirements for Admission to Graduate Studies for the Degree of Master of Science for Accelerated Master's Students

To be eligible for the Accelerated Master's Program, a student must be a declared biological science, zoology, neuroscience or environmental science B.S. major, and have identified a Biology faculty sponsor. Other requirements include a GPA typically higher than 3.10 overall and 3.30 in biology courses. Following admission students are required to take at least three credits of undergraduate research with a Biology faculty member who is the intended research advisor, usually in their senior year. After graduation with the B.S. degree, students are eligible to become candidates for the AMP M.S. degree. There is no GRE requirement for the AMP degree.

#### Minimum Degree Requirements

Nine or more additional course credits in biology and related fields; thesis research (up to fifteen credits); and successful defense of thesis.

#### Comprehensive Examination

The comprehensive examination must be taken by the end of the second semester as a matriculated graduate student for students admitted under the accelerated program. 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**

Satisfactory completion of a qualifying examination.