

Biological Sciences MS

Upon being accepted for admission into the Graduate School, each student will either select or be assigned an advisor from the graduate faculty within the Department of Biological and Environmental Sciences. This faculty member will chair the student's advisory committee, which will include at least two additional graduate faculty members, one of whom may be from another department. Courses may be applied to a particular master's degree program only with the approval of the student's advisory committee. Courses taken before a committee is chosen may not be approved by the committee for the student's particular degree program and, therefore, may not apply to the degree. Course selections will be based upon unique student needs as revealed by academic records and career goals. Course selections will include graduate course offerings in the Department of Biological and Environmental Sciences as well as supporting courses if deemed desirable or necessary from other departments. With committee recommendation, and approval of the Graduate Dean, a maximum of two upper level undergraduate courses may be applied to certain degree programs.

The Biological Sciences MS degree is available on campus or fully on-line.

Master of Science in Biological Sciences - Option I Thesis

The student will complete a minimum of 30 sh. The program includes: BSC 518 Thesis 6 (sh), plus 24 sh of courses (12 sh of which must be in biological sciences) selected and approved by the student's advisory committee.

Required Course (6 semester hours)

BSC 518	Thesis (6 semester hours required)	3-6
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Only 6 semester hours of credit for 518 per degree will be given upon satisfactory completion of the requirement.

Required Core Courses (12 semester hours)

Select 12 semester hours from the following approved courses.

BSC 500	Graduate Seminar	1
BSC 504	Quantitative Biology	3
BSC 505	Methods in Field Ecology	3
BSC 509	Microbial Ecology	3
BSC 510	Community Ecology	3
BSC 511	Advanced Ornithology	3
BSC 512	Ecological Genetics	3
BSC 513	Molecular Genetics	3
BSC 514	Pharmacology	3
BSC 515	Adv Cell Biology	3
BSC 516	Medical Microbiology	3
BSC 517	GLB/Stem Cell Biology	3
BSC 519	Advanced Gene Regulation	3
BSC 520	Advanced Immunology	3
BSC 521	Epigenetics	3
BSC 522	Reproductive Physiology	3
BSC 523	Vertebrate Endocrinology	3
BSC 524	Endocrine Toxicology	3
BSC 525	Advance Neuroscience	3
BSC 526	Developmental Biology	3
BSC 527	Human Physiology	3
BSC 528	Case Studies in Endocrinology	3
BSC 530	Virology	3
BSC 531	Biogeography	3
BSC 532	Adv. Behavioural Ecology	3
BSC 533	Invertebrate Zoology	3
BSC 534	Vertebrate Zoology	3
BSC 535	Evolution	3
BSC 537	Behavior and Conservation	3
BSC 538	Respiratory Physiology	3
BSC 539	Herpetology	3
BSC 540	Animal Behavior	3

BSC 550	Microbial Physiology	3
BSC 560	Landscape Ecology	3
BSC 561	Bioremediation	3
BSC 562	Ecotoxicology	3
Electives (12 semester hours)		
Select a total of 12 semester hours from:		12
Any 500 level BSC or ENVS course or any 500 level course from disciplines approved by the student's faculty advisor/advisory committee excluding BSC 518 & BSC 595.		
Total Hours		30

Master of Science in Biological Sciences - Option II Non-Thesis

The student must complete BSC 595 Research Literature and Techniques, plus 33 sh of courses (21 sh of which must be in biological sciences) selected and approved by the student's advisory committee.

Required Courses (3 semester hours)

BSC 595	Research Literature and Techniques (3 semester hours required)	3
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Required Core Courses (21 semester hours)

Select 21 semester hours from the following approved courses.		
BSC 504	Quantitative Biology	3
BSC 505	Methods in Field Ecology	3
BSC 509	Microbial Ecology	3
BSC 510	Community Ecology	3
BSC 511	Advanced Ornithology	3
BSC 512	Ecological Genetics	3
BSC 513	Molecular Genetics	3
BSC 514	Pharmacology	3
BSC 515	Adv Cell Biology	3
BSC 516	Medical Microbiology	3
BSC 517	GLB/Stem Cell Biology	3
BSC 519	Advanced Gene Regulation	3
BSC 520	Advanced Immunology	3
BSC 521	Epigenetics	3
BSC 522	Reproductive Physiology	3
BSC 523	Vertebrate Endocrinology	3
BSC 524	Endocrine Toxicology	3
BSC 525	Advance Neuroscience	3
BSC 526	Developmental Biology	3
BSC 527	Human Physiology	3
BSC 528	Case Studies in Endocrinology	3
BSC 530	Virology	3
BSC 531	Biogeography	3
BSC 532	Adv. Behavioural Ecology	3
BSC 533	Invertebrate Zoology	3
BSC 534	Vertebrate Zoology	3
BSC 535	Evolution	3
BSC 537	Behavior and Conservation	3
BSC 538	Respiratory Physiology	3
BSC 539	Herpetology	3
BSC 540	Animal Behavior	3
BSC 550	Microbial Physiology	3
BSC 560	Landscape Ecology	3
BSC 561	Bioremediation	3
BSC 562	Ecotoxicology	3

Electives (12 semester hours)

Select a total of 12 semester hours from any of the following approved disciplines:

12

Any 500 level BSC course beyond the courses used to satisfy the (21 sh Required Core), ENVS courses, or 500 level courses from disciplines approved by the student's faculty advisor/advisory committee excluding BSC 518 & BSC 595.

Total Hours**36**

Note: Successful completion of the Comprehensive Exam is required of all students.