

BIOLOGY, M.A.

Applicants who have completed a major in a biological science or appropriate related discipline and who present grade point averages that are predictive of success in this program may be admitted to the master's degree program. The M.A. degree is offered in Biology with a health profession concentration. The minimum requirement for the M.A. degrees, which are non-thesis, are thirty semester hours of graduate course work.

Master's students present a public exit seminar based on the thesis (M.S. degrees) or other approved topic (M.A. degree). During the final semester, master's students will have an oral examination comprising (1) demonstration of master's level knowledge in the concept areas associated with their area of emphasis, according to the particular degree program. There is no foreign language requirement or teaching requirement for the master's degrees in Biology.

For master's students, the major professor and the graduate program director in consultation with the student will select a thesis committee before the research is begun. The complete committee should be assembled by the end of the student's second semester. The major professor will be a member of the Biology graduate faculty or approved graduate faculty in affiliated life-science departments or programs at Baylor University. The committee consists minimally of three graduate faculty members, professors, including the major professor, a member of the Biology Department faculty and a Baylor University graduate faculty member from a department other than Biology. Additional faculty may be included on the committee. The committee is involved in the development of the thesis proposal and must approve the proposal before thesis research begins.

The purpose of the M.A. degree in Biology with a health profession concentration is to provide advanced education in biological topics specific for students pursuing a professional career in health care. This degree program is expected to be completed in a single year to serve students applying for health-related graduate programs. The student will select an intensive research topic that will be guided by a research mentor that will culminate with a required research seminar and defense. This research topic will be developed through taking six hours of Independent Studies (BIO 5V90 Special Problems) with a selected mentor.

Students must demonstrate familiarity with the scientific literature, and expertise in experimental design, in collection and analysis data, and in interpretation of results in subject areas pertinent to the student's thesis research. The majority of course work is in Biology, although graduate courses in allied areas (e.g., Biomedical Studies, Health Sciences, Environmental Studies) may be taken with approval of the student's committee and graduate program director.

M.A. Coursework

Code	Title	Hours
BIO 5201	Research Methods in Biology	2
BIO 5202	Res Meth In Bio II	2
STA 5300	Statistical Methods ¹	3
BIO 5101	Graduate Scientific Communications ²	2
BIO 5V90	Special Problems	6

Additional Biology Coursework	15
Total Hours	30

¹ Or substitute course such as BIO 5412 Biometrics

² 1 credit per semester, taken each of first two semesters

Up to four hours of BIO 5100 Seminars in Biology, or other appropriate seminars approved by the student's committee and graduate program director may be applied toward a master's program; repeat credit requires a change in topic from previous registrations. Not more than six hours of BIO 5V90 Special Problems may be applied toward master's degree requirements.