

MASTER OF SCIENCE IN BIOLOGY FOR THE HEALTH PROFESSIONS

Comprehensive examination

The purpose of this program is to accommodate the needs of students wishing to improve their qualifications for admission to health-related professional schools such as medicine, dentistry, optometry, and pharmacy by providing advanced training in biology leading to a master of science degree. The program is designed so that it is possible to take the program entirely online, either by full-time or part-time study. Students wishing to acquire advanced hands-on laboratory experience may do so by taking the suggested laboratory courses as electives.

Curriculum

The degree will require 32 credit hours, with 22 credit hours of required courses and the remainder elective courses. Up to nine credit hours of electives may be 400-level coursework. No more than nine credit hours may be non-biology courses.

Code	Title	Credit Hours
Required Courses		(22)
BIOL 504	Biochemistry	3
BIOL 510	Medical Microbiology	3
BIOL 515	Molecular Biology	3
BIOL 526	Developmental Biology	3
BIOL 527	Immunology and Immunochemistry	3
BIOL 530	Human Physiology	3
BIOL 544	Molecular Biology of Cells	3
BIOL 595	Biology Colloquium	1
or SCI 595	Ethics for the Health Professions	
Elective Courses		(10)
Select 10 credit hours from the following courses:		10
BIOL 410	Medical Microbiology	3
BIOL 426	Concepts of Cancer Biology	3
BIOL 431	Animal Physiology Laboratory	3
BIOL 440	Neurobiology	3
BIOL 597	Special Problems ¹	1-3
BME 533	Biostatistics	3
CHEM 513	Statistics for Analytical Chemists	3
COM 421	Technical Communication	3
COM 428	Verbal and Visual Communication	3
COM 435	Intercultural Communication	3
COM 523	Communicating Science	3
COM 577	Communication Law and Ethics	3
FDSN 501	Advanced Nutritional Biochemistry	3
PSYC 411	Medical Aspects of Disabling Conditions	3
PSYC 502	Social Bases of Behavior	3
SCI 522	Public Engagement for Scientists	3
Any 500-level biology course		3
Total Credit Hours		32

¹ Student may be approved for special problems as appropriate.