

BACHELOR OF SCIENCE IN BIOLOGICAL SCIENCES BACCMED TRACK

The BS in Biological Sciences - BaccMed Track degree is competitive program recommended for those who wish to pursue careers in medicine.

Learning Outcomes

The student learning outcomes for the major in Biological Sciences are as follows:

- Students will be able to synthesize concepts in biology and sub-disciplines of biology (Students will know, be able to explain, and synthesize concepts in biology and sub-disciplines of biology).
- Students will be able to analyze data and information in biology using statistical analysis, technology and computer-based analytical algorithms.
- Students will be able to critique or evaluate information in biology or sub-disciplines of biology (Students will be able think critically about information in biology or sub-disciplines of biology).
- Students will be able to communicate information in biology using appropriate vocabulary and syntax.
- Students will be prepared for entry into professional health or research related schools, post-graduate (MS) programs, or the workplace.

The BS degree in Biological Sciences requires a minimum of 37 semester hours from within the Department of Biological Sciences. (Courses at the 1000-level are not applicable to a BS degree.) Required courses may not be taken as credit/no credit.

All Biological Science majors following the BaccMed track must satisfy the following requirements:

COURSE	TITLE	S.H.
FIRST YEAR REQUIREMENT -STUDENT SUCCESS		
HONR 1500	Intro to Honors	1
HONR 2601P	Honor Seminar Campus Community Partnerships	1-2
General Education Requirements		
ENGL 1550	Writing 1	3
ENGL 1551	Writing 2	3
MATH 1581H	Honors Calculus for the Health Sciences 1	4
Some courses are categorized in more than one knowledge domain. Courses can only be used once within the General Education model.		
Listed GER courses below are required for this major.		
Arts and Humanities		6
Natural Science (2 courses, one must include a lab) (8 s.h.)		
CHEM 1515 & 1515L	General Chemistry 1 and General Chemistry 1 Laboratory	
CHEM 1516 & 1516L	General Chemistry 2 and General Chemistry 2 Laboratory	
Social Science		
SOC 1500	Introduction to Sociology	3
PSYC 1560	General Psychology	3
General Education Electives (9 s.h.)		
CMST 1545	Communication Foundations	3
PHLT 1531	Fundamentals of Public Health	3
Any Gen Ed Course		3
Major Required Courses		
Required BIOL Courses (21 s.h.):		

BIOL 2603H	Honors Integrated Biology	4
BIOL 3711	Cell Biology: Fine Structure	3
BIOL 3721	Genetics	3
BIOL 3730	Human Physiology	4
BIOL 3730L	Human Physiology Laboratory	1
BIOL 3705	Introduction to Human Gross Anatomy	4
BIOL 3705L	Introduction to Human Gross Anatomy Laboratory	0
BIOL 4861	Senior Biology Capstone Experience	2

In addition to the 21 s.h. Required BIOL Courses, students must take a minimum of 16 s.h. elective BIOL courses. These must be 3700 level or higher. A minimum of two BIOL electives must have a laboratory component. One of these labs must be at 4800 level or above.

Required Major Support Courses (50-51 s.h.):

Chemistry

CHEM 1515	General Chemistry 1	3
CHEM 1515L	General Chemistry 1 Laboratory	1
CHEM 1516	General Chemistry 2	3
CHEM 1516L	General Chemistry 2 Laboratory	1
CHEM 3719	Organic Chemistry 1	3
CHEM 3719L	Organic Chemistry 1 Laboratory	1
CHEM 3720	Organic Chemistry 2	3
CHEM 3720L	Organic Chemistry 2 Laboratory	1
CHEM 3785	Biochemistry 1	3

Physics - Take One of the Following Sequences **9-10**

PHYS 1501	Fundamentals of Physics 1	
PHYS 1501L	Fundamentals of Physics Laboratory 1	
PHYS 1502	Fundamentals of Physics 2	
PHYS 1502L	Fundamentals of Physics Laboratory 2	

OR

PHYS 2610	General Physics 1	
PHYS 2610L	General Physics Laboratory 1	
PHYS 2611	General Physics 2	
PHYS 2611L	General Physics laboratory 2	

Other Major Required Courses:

STAT 3717	Statistical Methods (or Biol 5853, Biometry, 4 sh)	4
PHLT 3709	Elements of Urban Environmental Health Practices	3
SOC 3745	Sociology of Health, Illness, and Healthcare	3
HAHS 4809H	Honors Primary Care Medical Practices	2
HONR 4890C	Senior Honors Thesis: Capstone	1
Free Electives	Additional coursework as needed to reach 120 s.h.	9

Total Semester Hours **120-122**