

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.

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 2601C	CE Honors Seminar	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.		
Arts and Humanities (select any 2 courses)		6
Natural Science (2 courses, one must include a lab) (8 s.h.)		
CHEM 1515 & 1515L	General Chemistry 1 and General Chemistry 1 Laboratory	
PHYS 1501 & 1501L	Fundamentals of Physics 1 and Fundamentals of Physics Laboratory 1 ^{or PHYS 2610 & lab}	
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 Elective 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
Upper Division BIOL courses 3700 level or higher (16 s.h.) : A minimum of two BIOL courses must have a laboratory component. One of these labs must be at 4800 level or above.		16
Chemistry (19 s.h.)		
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 (8 s.h.):		
STAT 3743	Probability and Statistics	4
or STAT 3717	Statistical Methods	
or BIOL 5853	Biometry	
SOC 3745	Sociology of Health, Illness, and Healthcare	3
HONR 4890C	Senior Honors Thesis: Capstone	1
Electives to get to 120 hours		14
Total Semester Hours		120-122

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.

Year 1		
Fall		S.H.
HONR 1500	Intro to Honors	1
CMST 1545	Communication Foundations	3
ENGL 1550	Writing 1	3
CHEM 1515	General Chemistry 1	3
CHEM 1515L	General Chemistry 1 Laboratory	1
Elective		4
Semester Hours		15
Spring		
HONR 2601P	Honor Seminar Campus Community Partnerships	1-2
BIOL 2603	Integrated Biology for BaccMed	4
SOC 1500	Introduction to Sociology	3
CHEM 1516	General Chemistry 2	3
CHEM 1516L	General Chemistry 2 Laboratory	1

ENGL 1551	Writing 2	3
Semester Hours		15-16
Year 2		
Fall		
BIOL 3705	Introduction to Human Gross Anatomy	4
BIOL 3705L	Introduction to Human Gross Anatomy Laboratory	0
BIOL 3721	Genetics	3
MATH 1581H	Honors Calculus for the Health Sciences 1	4
CHEM 3719	Organic Chemistry 1	3
CHEM 3719L	Organic Chemistry 1 Laboratory	1
Semester Hours		15
Spring		
CHEM 3720	Organic Chemistry 2	3
CHEM 3720L	Organic Chemistry 2 Laboratory	1
BIOL 3711	Cell Biology: Fine Structure	3
PSYC 1560	General Psychology	3
Elective		4
Semester Hours		14
Year 3		
Fall		
BIOL 3730	Human Physiology	4
BIOL 3730L	Human Physiology Laboratory	1
CHEM 3785	Biochemistry 1	3
PHYS 1501 or PHYS 2610	Fundamentals of Physics 1 or General Physics 1	4
PHYS 1501L or PHYS 2610L	Fundamentals of Physics Laboratory 1 or General Physics Laboratory 1	1
Gen Ed - AH1		3
Semester Hours		16
Spring		
PHYS 1502 or PHYS 2611	Fundamentals of Physics 2 or General Physics 2	3-4
PHYS 1502L or PHYS 2611L	Fundamentals of Physics Laboratory 2 or General Physics laboratory 2	1
PHLT 1531	Fundamentals of Public Health	3
GER Elective - AH2		3
Biol Elective		4
Semester Hours		14-15
Year 4		
Fall		
SOC 3745	Sociology of Health, Illness, and Healthcare	3
PHLT 3709	Elements of Urban Environmental Health Practices	3
Biol Electives		8
Semester Hours		14
Spring		
BIOL 4861	Senior Biology Capstone Experience	2
HONR 3702T	University Honors Seminar MCAT Test Preparation	1
HONR 4890C	Senior Honors Thesis: Capstone	1
STAT 3717	Statistical Methods (or substitute Biol 5853 4sh)	4
General Elective, 5 sh		5
Biol Elective, 4sh		4
Semester Hours		17
Total Semester Hours		120-122