



BACHELOR OF SCIENCE IN BIOLOGY (Pre-Med and Biomed Option)

First Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 120 - Fundamentals of Biology	4	Milestone Course	Core Course. Prerequisite for BIOL 121	
CHEM 105 - General Chemistry I	3	Milestone Course	Prerequisite for CHEM 106, CHEM 108, BIOL 270, BIOL 341	
CHEM 107 - General Chemistry Laboratory I	2	Milestone Course	Prerequisite for CHEM 106, CHEM 108. BIOL 270, BIOL 341	
ENGL 101 - English Composition I	3		Prerequisite for ENGL 102, ENGL 112	
G ED 101 (NSM)	3			
Semester Total	15			

Second Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 121 - Biological Diversity	4	Milestone Course	Core Course. Prerequisite for BIOL 331, BIOL 341	
CHEM 106 - General Chemistry II	3	Milestone Course	Prerequisite for BIOL 270	
CHEM 108 - General Chemistry Laboratory II	2	Milestone Course	Prerequisite for BIOL 270	
ENGL 102 or ENGL 112 - English Composition II or Technical Writing	3			
ART 101 or another G ED Arts	3			
Semester Total	15			

Third Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 250 or BIOL 270 - General Ecology or Genetics	4	Milestone Course	Core Course - (BIOL 270 is a prerequisite for BIOL 385)	
CHEM 205 - Organic Chemistry I	3	Milestone Course	Prerequisite for CHEM 206	
CHEM 207 - Organic Chemistry Laboratory I	2	Milestone Course	Prerequisite for CHEM 208	
ENGL 150 or another G ED Humanities	3			
COMM 100 - Speech Communication	3			
Semester Total	15			

Fourth Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 250 or BIOL 270 - General Ecology or Genetics	4	Milestone Course	Core Course - (BIOL 270 is a prerequisite for BIOL 385)	
CHEM 206 - Organic Chemistry II	3	Milestone Course	Prerequisite for BIOL 385	
CHEM 208 - Organic Chemistry Laboratory II	2	Milestone Course	Prerequisite for BIOL 385	
HHP 122 or another G ED Wellness	2			
HIST 208 or another G ED History	3			
Semester Total	14			

Fifth Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 331 - Human Anatomy and Physiology	4	Milestone Course	Core Course. Prerequisite for BIOL 332	
PHYS 201 - General Physics I	4	Milestone Course	Prerequisite for PHYS 202	
PHYS 203 - General Physics Laboratory I	1	Milestone Course	Prerequisite for PHYS 204	
MATH 206 or 222 - Analytic Geometry and Calc I or Elem Stats for Math & Natural Science	4	Milestone Course		
Free Elective	3			
Semester Total	16			

Sixth Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 332 - Human Anatomy and Physiology II	4	Milestone Course	Core Course	
BIOL 385 - Cell Biology	4	Milestone Course	Core Course. Prerequisite for BIOL 411	
PHYS 202 - General Physics II	4	Milestone Course		
PHYS 204 - General Physics Laboratory II	1	Milestone Course		
POSC 100 or another G ED Social Science	3			
Semester Total	16			

Seventh Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 341 - Microbiology	4	Milestone Course	Core Course.	
PHYS 106 or another G ED Natural Sciences	4		Recommend BIOL 101 NOT be taken as the G Ed Nat Sci	
Free Electives	3			
Free Electives	3			
Semester Total	14			

Eighth Semester	Hours	Milestone Course(s)	Milestone Note	Term
BIOL 411 - Senior Seminar	1	Milestone Course	Sr. Capstone & Core Course (Should be completed last semester)	
BIOL ELECTIVE	4			
BIOL ELECTIVE	4			
POSC 210 or another G ED International Perspectives	3			
Free Elective	3			
Semester Total	15			

See reverse of this page for General Education coursework options

GENERAL EDUCATION COMPONENT AND COURSEWORK OPTIONS

Courses with a 🌐 indicate that the course is recommended from a list of courses within a specific General Education Component. Students may choose to take another course within the same General Education Component in place of the recommended course. For descriptions of these courses, consult the online West Virginia State University Catalog.

Some prerequisite requirements are listed in the course schedule; others are at the end of the course descriptions in the University Catalog. Be sure you meet the prerequisites for a particular course before enrolling in the course.

Arts (3 credit hours)	Scientific Reasoning (3-4 credit hours)
ART 101 Studio I - Introduction to Art	BIOL 101 Principles of Biology (4 credits)
ART 101H Studio I – Introduction to Art (Honors)	BIOL 101H Principles of Biology (Honors) (4 credits)
COMM 170 The Art of the Theater	BIOL 108 Environmental Biology (4 credits)
MUSIC 107 Appreciation of Music	BIOL 110 Economic Biology (4 credits)
	BIOL 120 Fundamentals of Biology (4 credits)
International Perspectives (3 credit hours)	Natural Science (3 - 4 credit hours)
COMM 446 International Cinema	CHEM 100 Consumer Chemistry (3 credits)
INTS 210 Introduction to International Perspectives	CHEM 100H Consumer Chemistry (Honors) (3 credits)
INTS 250 Diversity in Africana Studies	CHEM 132 Introductory Environmental Chemistry (3 credits)
ECON 109 Intro to World Economy	PHYS 101 Physical Science Survey I (3 credits)
ENGL 350 World Literature Classical Era	PHYS 102 Physical Science Survey II (4 credits)
ENGL 351 World Literature Modern Era	PHYS 103 Elements of Physical Science (3 credits)
ENGL 440 Interpreting the Holocaust	PHYS 106 Intro. to Physical Geology (4 credits)
FREN 101 Beginning French	PHYS 107 Historical Geology (4 credits)
FREN 102 Elementary French	PHYS 110 Weather and Climate (4 credits)
FREN 205 A View of Changing Culture	PHYS 111 Energy and the Environment (4 credits)
FREN 443 West African Culture	PHYS 120 Astronomy (3 credits) (& optional) PHYS 121 Astronomy Lab
GERM 101 Beginning German	PHYS 121 Astronomy Lab (1 credit)
GERM 102 Elementary German	
SPAN 101 Beginning Spanish	BIOL 101 Principles of Biology (4 credits)
SPAN 102 Elementary Spanish	BIOL 101H Principles of Biology (Honors) (4 credits)
SPAN 205 Spain and its Culture	BIOL 108 Environmental Biology (4 credits)
POSC 210 International Relations	BIOL 110 Economic Biology (4 credits)
POSC 415 Arab Middle East	BIOL 120 Fundamentals of Biology (4 credits)
PHIL 308 World Religions	CHEM 100 Consumer Chemistry (3 credits)
EDUC 319 Content Area Literacy	CHEM 100H Consumer Chemistry (Honors) (3 credits)
EDUC 321 Teaching Writing in the Elementary School	CHEM 132 Introductory Environmental Chemistry (3 credits)
	PHYS 101 Physical Science Survey I (3 credits)
History (3 credit hours)	PHYS 102 Physical Science Survey II (4 credits)
HIST 201 World History	PHYS 103 Elements of Physical Science (3 credits)
HIST 201H World History (Honors)	PHYS 106 Intro. to Physical Geology (4 credits)
HIST 202 World History	PHYS 107 Historical Geology (4 credits)
HIST 207 American History to 1865	PHYS 110 Weather and Climate (4 credits)
HIST 208 American History from 1865	PHYS 111 Energy and the Environment (4 credits)
	PHYS 120 Astronomy (3 credits)
Humanities (3 credit hours)	PHYS 121 Astronomy Lab (1 credit)
ART 100 Art Appreciation	Social Science (3 credit hours)
COMM 140 Film Appreciation	BA 210 Business Law
COMM 140H Film Appreciation (Honors)	BA 312 Personal Finance
ENGL 150 Introduction to Literature	ECON 101 American Economy
ENGL 150H Introduction to Literature (Honors)	POSC 100 Introduction to Government and Politics
MUSC 104 American Music A Panorama	POSC 101 American National Government
	POSC 101H American National Government (Honors)
Wellness (2 credit hours)	PSYC 151 General Psychology
HHP 122 Fitness for Living	SOC 101 Introduction to Sociology
HHP 157 Healthy Living	SOC 305 Birth Death and Migration
HHP 157H Healthy Living (Honors)	EDUC 201 Human Growth and Development
HHP 242 Team Sports II	

Degree Requirements & Graduation

Students are responsible for knowing and fulfilling requirements for graduation. Accordingly, they should carefully read the catalog and curriculum requirements. The University cannot assume responsibility for failure of students to fulfill catalog and curriculum requirements. If questions arise about requirements, students should consult with the appropriate department chair, college dean or the Registrar several semesters prior to graduation. See below listed requirements for Graduation and consult your respective year WVU Academic Catalog.

1. A cumulative grade point average of 2.0 (i.e., a C average) on all work attempted with the exception of developmental courses and courses with grades of P, K, W, and AUD.
2. A cumulative grade point average of 2.0 in major and minor (if applicable) courses. The department will identify the courses that count toward the major and the major cumulative grade point average.
3. Completion of the total number of hours required in the curriculum elected.
4. The necessary residence requirement for a degree.
5. Payment of all outstanding financial obligations to the University.
6. All grades of I and Q must be satisfied before graduation.