



BACHELOR OF SCIENCE IN ENGINEERING/CIVIL

First Semester	Hours	Milestone(s)	Milestone Note	Term
MATH 206 - Analytic Geometry and Calculus I	4	Milestone Course	Prerequisite for ENGR 102, ENGR 241, MATH 207	
ENGR 101 - Intro to Problem Solving I	2	Milestone Course	Core course. Prerequisite for ENGR 102	
CHEM 105 - General Chemistry I	3	Milestone Course	Prerequisite for CHEM 106, CE 306	
CHEM 107 - General Chemistry Laboratory I	2	Milestone Course		
ENGL 101 - English Composition I	3			
G ED 101 (NSM)	3			
Semester Total	17			

Second Semester	Hours	Milestone(s)	Milestone Note	Term
MATH 207 - Analytic Geometry and Calculus II	4	Milestone Course	Prerequisite for MATH 208, ENGR 242, ENGR 243, ENGR 301, ENGR 311	
ENGR 102 - Intro to Problem Solving II	3	Milestone Course	Core course.	
ENGR 210 - Engineering Graphics/CAD	2	Milestone Course	Core course.	
PHYS 231 - Physics for Scientists and Engineers I	4	Milestone Course	Prerequisite for ENGR 241, ENGR 311, PHYS 232	
PHYS 203 - General Physics Laboratory I	1	Milestone Course		
ENGL 102 - English Composition II	3			
Semester Total	17			

Third Semester	Hours	Milestone(s)	Milestone Note	Term
MATH 208 - Analytic Geometry and Calculus III	4	Milestone Course	Prerequisite for MATH 415	
ENGR 241 - Statics	3	Milestone Course	Prerequisite for ENGR 242, ENGR 243, ENGR 301	
PHYS 232 - Physics for Scientists and Engineers II	4	Milestone Course		
PHYS 204 - General Physics Laboratory II	1	Milestone Course		
BIOL 120 - Fundamentals of Biology	4	Milestone Course	Cognate Course	
Semester Total	16			

Fourth Semester	Hours	Milestone(s)	Milestone Note	Term
MATH 415 - Differential Equations for Science and Engineering	4	Milestone Course		
ENGR 243 - Mechanics of Materials	3	Milestone Course	Core course. Prerequisite for CE 301, CE 302, CE 303	
ENGR 301 - Fluid Mechanics	4	Milestone Course	Core course. Prerequisite for ChE 304	
CE 201 - Surveying	3	Milestone Course	Core course. Prerequisite for CE 308	
CE 302 - Civil Engineering Materials	3	Milestone Course	Core course. Prerequisite for CE 308	
Semester Total	17			

Fifth Semester	Hours	Milestone(s)	Milestone Note	Term
CE 301 - Structural Analysis	4	Milestone Course	Core course. Prerequisite for CE 409, CE 410	
MATH 222 - Elementary Statistics for Math and Natural Science	3	Milestone Course	Cognate course.	
ENGR 311 - Thermodynamics	3	Milestone Course	Core course. Prerequisite for ChE 311	
CE 303 - Intro to Geotechnical Engineering	4	Milestone Course	Core course. Prerequisite for CE 403	
CE 306 - Intro to Environmental Engineering	4	Milestone Course	Core course.	
Semester Total	18			

Sixth Semester	Hours	Milestone(s)	Milestone Note	Term
CE 308 - Intro to Transportation Engineering	4	Milestone Course	Core course.	
ENGR 242 - Dynamics	3	Milestone Course	Core course.	
CE Design Elective	3	Milestone Course	Core course.	
CE Design Elective	3	Milestone Course	Core course.	
G ED Scientific Reasoning	3-4			
Semester Total	16-17			

Seventh Semester	Hours	Milestone(s)	Milestone Note	Term
CE Open Elective	3	Milestone Course	Core course.	
CE Open Elective	3	Milestone Course	Core course.	
ECON 202 - Principles of Microeconomics	3	Milestone Course	Cognate course.	
G ED Wellness	2			
G ED Social Science	3			
G ED Oral Communication	3			
Semester Total	17			

Eighth Semester	Hours	Milestone(s)	Milestone Note	Term
ENGR 479 - Senior Seminar	3	Milestone Course	Core course	
G ED Arts	3			
G ED History	3			
G ED Humanities	3			
G ED International Perspectives	3			
Semester Total	15			

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	
SPAN 102 Elementary Spanish	
SPAN 205 Spain and its Culture	
POSC 210 International Relations	
POSC 415 Arab Middle East	
PHIL 308 World Religions	
EDUC 319 Content Area Literacy	
EDUC 321 Teaching Writing in the Elementary School	
History (3 credit hours)	Social Science (3 credit hours)
HIST 201 World History	BA 210 Business Law
HIST 201H World History (Honors)	BA 312 Personal Finance
HIST 202 World History	ECON 101 American Economy
HIST 207 American History to 1865	POSC 100 Introduction to Government and Politics
HIST 208 American History from 1865	POSC 101 American National Government
	POSC 101H American National Government (Honors)
	PSYC 151 General Psychology
	SOC 101 Introduction to Sociology
	SOC 305 Birth Death and Migration
	EDUC 201 Human Growth and Development
Humanities (3 credit hours)	
ART 100 Art Appreciation	
COMM 140 Film Appreciation	
COMM 140H Film Appreciation (Honors)	
ENGL 150 Introduction to Literature	
ENGL 150H Introduction to Literature (Honors)	
MUSC 104 American Music A Panorama	
Wellness (2 credit hours)	
HHP 122 Fitness for Living	
HHP 157 Healthy Living	
HHP 157H Healthy Living (Honors)	
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
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.