

## Biology Education 9-Adult

Courses required for Biology 9-Adult

BIOL 100 (Modern Concepts of Life Science)*	4 credits
BIOL 108 (Botany)*	4 credits
BIOL 180 (Invertebrate Zoology)*	4 credits
BIOL 290 (General Genetics)*	4 credits
BIOL 308 (Comparative Vertebrate Anatomy)*	4 credits
BIOL 378 (Junior Seminar I)	1 credit
BIOL 379 (Junior Seminar II)	1 credit
BIOL 477 (Senior Seminar I)	1 credit
BIOL 478 (Senior Seminar II)	1 credit
BIOL 490 (Senior Project)	2-3 credits
PHYS 201 (General Physics I)	4 credits
PHYS 202 (General Physics II)	4 credits
CHEM 111 (Organic Chemistry I)	4 credits
CHEM 112 (General Chemistry I)	4 credits
CHEM 221 (General Chemistry II)	4 credits
CHEM 222 (Organic Chemistry II)	4 credits

For Biology Education Grades 9-12 Track, the following courses are also required:

BIOL 110 (Plants, People and Environment)*	4 credits
BIOL 168 (Introduction to Mammalian Anatomy and Physiology I)*	3 credits
BIOL 169 (Introduction to Mammalian Anatomy and Physiology II)*	3 credits
BIOL 221 (Introduction to Environmental Science)	3 credits
BIOL 310 (Evolution)	2 credits
BIOL 326 (Ecology)	3 credits
BIOL 341 (Cell Biology)	3 credits
BIOL 343 (Microbiology)	4 credits
GENS 480 (Methods and Materials in Teaching Physical & Life Sciences)*	3 credits

In addition, one of the following courses must be taken to fulfill the Liberal Arts Core requirement in Mathematics:

MATH 105 (Pre-calculus)	3 credits	MATH 202 (Calculus II)	4 credits
MATH 201 (Calculus I)	4 credits	MATH 281 (Statistical Methods I)	3 credits

Candidates will be recommended for WV state certification only when the following requirements have also been completed: all courses listed below, the Professional Portfolio, requirements for a Bethany degree, and WV-required PRAXIS I and II tests (passed according to WV-required cut-off scores). Courses listed above indicated with an \* and courses listed immediately below must be completed prior to the 445/470/471/472/473 Block – i.e. they are prerequisites to Student Teaching.

EDUC 203 (Human Development)	3 credits
SPED 207 (Exceptionalities and Diversities)	3 credits
SPED 208 (The Special Education Process)	3 credits
EDUC 242 (Professional Principles)	3 credits
EDUC 282 (Instructional Technology)	3 credits
EDUC 295 (Multicultural Field Experience)	NC
EDUC 348 (Classroom Discipline and Instruction)	3 credits
EDUC 426 (Principles & Techniques of Middle School Educ.)	2 credits
EDUC 427 (Middle School Curriculum & Organization)	1 credit
RDNG 376 (Content Area Literacy)	3 credits
PSYC 100 (General Psychology)	4 credits
SOCI/SOWO 210 (Human Diversity)	3 credits

Candidates must be admitted to the Education Program in order to enroll in student teaching.

Student Teaching Block:

EDUC 445 (Professional Issues in Education)	4 credits
EDUC 470 (Clinical Practice and Student Teaching I)	4 credits
EDUC 471 (Clinical Practice and Student Teaching II)	4 credits
EDUC 472 (Student Teaching Seminar)	2 credits
EDUC 473 (Philosophy of Education)	2 credits

Requirements for a Bethany BA degree include the following:

First-Year Experience (FSEM 111, FSEM 112, FSEM 113)	7 credits	Creative Arts	3 credits
Wellness course	3 credits	Wellness Course	3 credits
ENGL 111 (College Writing)	3 credits	World Languages & Culture	8 credits
RELS 100 (Introduction to Religion)	3 credits		

Liberal Arts Core:

Contemporary Society and Institutions	Literature	Life Science
Cultural Awareness (SOCI 210)	Mathematical Understanding	
Human Behavior (EDUC 203)	Physical Science	
International Understanding	The Western Tradition	