

Calvin Biology, BS Requirements	Siena Heights Equivalent
BIOL 160 - Ecological and Evolutionary Systems	BIOL 241 - Animal Biology (2 of 4 CR) /BIOL 242 - Plant Biology (2 of 4 CR)
BIOL 161 - Cellular and Genetic Systems	BIOL 141 - Basic Concepts of the Cell
BIOL 200 - Research Design and Methodology	BIOL 395 - Junior Seminar 1 (1)/BIOL 396 - Junior Seminar II (1) / MAT 174 - Data Analysis and Statistics (2 of 3 CR)
BIOL 231 - Introduction to Animal Physiology OR BIOL 206 - Human Physiology	BIOL 241 - Animal Biology (2 of 4 CR)
BIOL 232 - Introduction to Plant Physiology	BIOL 242 - Plant Physiology (2 of 4 CR)
BIOL 295 Biology Seminar (taken twice)	

Take 20 Hours from the Following

(Must include 4 hours of 300-level laboratory components. No more than 4 hours of BCHM coursework may be counted.)

Calvin Biology, BS Requirements	Siena Heights Equivalent
BCHM 322 - Metabolism and Metabolic Disease	
BCHM 323 - Venom	
BCHM 324 - Proteins Gone Awry	
BIOL 305L - Advanced Human Anatomy Lab	
BIOL 306 - Advanced Human Physiology and Pathophysiology	
BIOL 313 - Paleontology	
BIOL 321 - Genetics and Development	BIOL 342 - Genetics
BIOL 323 - Comparative Vertebrate Anatomy	BIOL 349 - Comparative Vertebrate Anatomy
BIOL 325 - Biotechnology	
BIOL 331 - Comparative Animal and Human Physiology	BIOL 351 - Vertebrate Physiology
BIOL 332 - Plant Physiology	
BIOL 333 - Immunology and Hematology	
BIOL 334 - Neurobiology of Disease	
BIOL 335 - Cell Physiology	BIOL 440 - Cell and Molecular Biology
BIOL 336 - General Microbiology	BIOL 360 - Microbiology
BIOL 338 - Animal Behavior	BIOL 343 - Animal Behavior
BIOL 341 - Entomology	BIOL 341 - Entomology
BIOL 344 - Wildlife Biology and Conservation	

BIOL 345 - Ecosystem Ecology and Management
BIOL 346 - Plant Taxonomy
BIOL 354 - Specific Advanced Topics
BIOL 364 - Global Health, Environment, and Sustainability
BIOL 372 - Dutch Sustainability: Is Orange the New Green?
BIOL 385 - Internship in Biology OR BIOL 399 - Undergraduate Research
BIO 442 - Evolution
BIOL 441 - Terrestrial Ecology & Field Biology
BIO 443- Fresh Water Ecology and Field Biology
BIO 480 - Sustainability Internship
BIO 485 - Special Topics
BIO 344 - Topics in Animal Behavior

Take 4 Hours from the Following

Calvin Biology, BS Requirements	Siena Heights Equivalent
BIOL 395 - Perspectives in Biology	
BIOL 396 - Perspectives in Medicine	

COGNATES

Calvin Biology, BS Requirements	Siena Heights Equivalent
CHEM 101 - General Chemistry I	CHE 141 - General Chemistry I
CHEM 102 - General Chemistry II	CHE 142 - General Chemistry II
(or CHEM 103 - Accelerated General Chemistry)	
CHEM 240 - Survey of Organic Chemistry OR CHEM 241 - Organic Chemistry I	CHE 241 - Organic Chemistry I
STAT 145 - Biostatistics	MAT 174 - Data Analysis and Statistics (1 of 3 CR) / MAT 244 - Statistical Analysis and Design (3 CR)

Take 8 hours from the Following

Calvin Biology, BS Requirements	Siena Heights Equivalent
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MATH 132 - Calculus for Management, Life, and Social Sciences OR MATH 171 - Calculus I	MAT 159 Precalculus OR MAT 181 - Calculus with Analytical Geometry
CS 106 - Introduction to Scientific Computation and Modeling	
PHYS 221 - General Physics I	PHY 141 - General Physics I (or PHY 161)
PHYS 222 - General Physics II	PHY 142 - General Physics II (or PHY 162)

Take 4 Hours from the Following

Calvin Biology, BS Requirements	Siena Heights Equivalent
BCHM 321 - Principles of Biochemistry	CHE 454 - Biochemistry
CHEM 242 - Organic Chemistry II	CHE 242 - Organic Chemistry II
CS 106 - Introduction to Scientific Computation and Modeling (if not taken above)	
GEO 151 - Introduction to Geology	ENV 122 - Geology
PHYS 223 - Physics for the Health Sciences	
PSYC 343 - Behavioral Neuroscience	PSY 455 - Physiological Psychology