Biology Major

Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Animal Biology
- Animal Biology (Accelerated) Integrated with graduate Environmental Science & Policy program
- Aquaculture
- Aquatic Ecology and Fisheries Emphasis
- Cell/Molecular
- Ecology and Conservation
 - Ecology and Conservation (Accelerated) Integrated with graduate Environmental Science & Policy Program
- Microbiology
- Pre-Veterinary

Animal Biology

Code	Title	Credits
Supporting Courses		25-29
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one cours	se):	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
ENV SCI 336	Environmental Statistics	
ENV SCI 337	Environmental GIS	
Writing (choose one course): ¹		
INFO SCI 390	Technical Writing	
WF 105	Research and Rhetoric	
Upper Level Courses		30-33
Required courses		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 311	Plant Physiology	
or BIOLOGY 346	Comparative Physiology	
Cell or Microbiology (choose on	ne):	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
BIOLOGY 322	Environmental Microbiology	
Choose 12-14 credits from the f	ollowing courses:	
BIOLOGY 304	Genetics Laboratory	
BIOLOGY 310	Plant Biodiversity	
BIOLOGY 320	Field Botany	
BIOLOGY 322	Environmental Microbiology	

Total Credits	55-6
BIOLOGY 490	Biology Seminar
Seminar, 1 credit required	
BIOLOGY 449	Wetland Ecology
HUM BIOL 444	Endocrinology
HUM BIOL 423	Immunology Lab
HUM BIOL 422	Immunology
HUM BIOL 413	Neurobiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 402	Human Physiology
ENV SCI 403	Limnology
ENV SCI 401	Stream Ecology
ENV SCI 337	Environmental GIS
BIOLOGY 411	Developmental Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 401	Fish and Wildlife Population Dynamics
BIOLOGY 365	Aquatic Invertebrates
BIOLOGY 357	Marine Biology
BIOLOGY 355	Entomology
BIOLOGY 346	Comparative Physiology
BIOLOGY 345	Animal Behavior
BIOLOGY 343	Mammalogy
BIOLOGY 342	Ornithology
BIOLOGY 341	Ichthyology
BIOLOGY 340	Comparative Anatomy of Vertebrates

¹ Satisfied with an ACT English score of 32 or higher

Animal Biology (Accelerated) - Integrated with graduate Environmental Science & Policy program

Code	Title	Credits
Supporting Courses		25-29
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one cours	se):	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
ENV SCI 336	Environmental Statistics	
ENV SCI 337	Environmental GIS	
Writing (choose one course): ¹		
INFO SCI 390	Technical Writing	
WF 105	Research and Rhetoric	
Upper Level Courses		30-33
Required courses		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	

Total Credits	55-
BIOLOGY 490	Biology Seminar
Seminar, 1 credit required	
HUM BIOL 444	Endocrinology
HUM BIOL 423	Immunology Lab
HUM BIOL 422	Immunology
HUM BIOL 413	Neurobiology
HUM BIOL 403	Human Physiology Laboratory
HUM BIOL 402/602	Human Physiology #
ENV SCI 403/603	Limnology [#]
ENV SCI 401/601	Stream Ecology #
ENV SCI 337/537	Environmental GIS [#]
BIOLOGY 411	Developmental Biology Laboratory
BIOLOGY 410	Developmental Biology
BIOLOGY 401/601	Fish and Wildlife Population Dynamics [#]
BIOLOGY 365	Aquatic Invertebrates
BIOLOGY 357/557	Marine Biology [#]
BIOLOGY 355/555	Entomology #
BIOLOGY 346	Comparative Physiology
BIOLOGY 345	Animal Behavior
BIOLOGY 343/543	Mammalogy [#]
BIOLOGY 342/542	Ornithology #
BIOLOGY 341/541	Ichthyology #
BIOLOGY 340	Comparative Anatomy of Vertebrates
BIOLOGY 322/522	Environmental Microbiology #
BIOLOGY 320/520	Field Botany #
BIOLOGY 310/510	Plant Biodiversity #
BIOLOGY 304	Genetics Laboratory
Choose 12-14 credits from the fo	-
BIOLOGY 322/522	Environmental Microbiology #
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory
& BIOLOGY 308	and Cell Biology Laboratory
BIOLOGY 307	Cell Biology
Cell or Microbiology (choose on	e):
or BIOLOGY 346	Comparative Physiology
BIOLOGY 311/511	Plant Physiology #
BIOLOGY 309	Evolutionary Biology

Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Environmental Science & Policy office or refer to the graduate catalog (http://catalog.uwgb.edu/archive/2023-2024/graduate/general-information/ academic-rules-regulations/undergrad-in-accelerated/).

Aquaculture

Code Supporting Courses	Title	Credits 28
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 207	Laboratory Safety	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	

CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one course	se):	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
ENV SCI 336	Environmental Statistics	
ENV SCI 337	Environmental GIS	
Writing (choose one course):		
WF 105	Research and Rhetoric	
INFO SCI 390	Technical Writing	
Upper Level Courses		36
Required Courses		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 341	Ichthyology	
BIOLOGY 360	Early Life History of Fish	
BIOLOGY 361	Introduction to Aquaculture	
BIOLOGY 461	Advanced Aquaculture	
CHEM 300 & CHEM 301	Bio-Organic Chemistry and Bio-Organic Chemistry Laboratory	
ENV SCI 403	Limnology	
Cell or Microbiology (choose or	ne):	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
BIOLOGY 323	Principles of Microbiology	
& BIOLOGY 324	and Principles of Microbiology Laboratory	
BIOLOGY 322	Environmental Microbiology	
Choose one of the following co	urses:	
BIOLOGY 309	Evolutionary Biology	
or BIOLOGY 346	Comparative Physiology	
Seminar		1
BIOLOGY 490	Biology Seminar	

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Total Credits
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Aquatic Ecology and Fisheries

Code	Title	Credits
Supporting Courses		28
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 207	Laboratory Safety	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one course	se):	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
ENV SCI 336	Environmental Statistics	
ENV SCI 337	Environmental GIS	

65

Writing (choose one co	ourse):	
WF 105	Research and Rhetoric	
INFO SCI 390	Technical Writing	
Upper Level Courses		36
Required Courses		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 346	Comparative Physiology	
BIOLOGY 360	Early Life History of Fish	
BIOLOGY 449	Wetland Ecology	
Choose one of the follo	owing courses:	
BIOLOGY 341	Ichthyology	
BIOLOGY 365	Aquatic Invertebrates	
Choose one of the follo	owing courses:	
ENV SCI 401	Stream Ecology	
ENV SCI 403	Limnology	
Choose one of the follo	owing courses:	
BIOLOGY 370	Fisheries Research and Management	
BIOLOGY 401	Fish and Wildlife Population Dynamics	
Seminar		1
BIOLOGY 490	Biology Seminar	
Total Credits		65

Cell/Molecular

Code	Title	Credits
Supporting Courses		28-29
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one course	se):	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
ENV SCI 336	Environmental Statistics	
ENV SCI 337	Environmental GIS	
Writing (choose one course): ¹		
INFO SCI 390	Technical Writing	
WF 105	Research and Rhetoric	
Upper Level Courses		30-33
Required courses		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 307	Cell Biology	
BIOLOGY 308	Cell Biology Laboratory	
BIOLOGY 309	Evolutionary Biology	

	I Credits	Biology Seminar	58-62
	eminar, 1 credit required OLOGY 490	Pielony Cominer	
	UM BIOL 444	Endocrinology	
	UM BIOL 423	Immunology Lab	
	UM BIOL 422	Immunology	
	HEM 331	Biochemistry Laboratory	
	HEM 330	Biochemistry	
	OLOGY 411	Developmental Biology Laboratory	
	OLOGY 410	Developmental Biology	
	OLOGY 408	Molecular Biology Laboratory	
	OLOGY 402	Advanced Microbiology	
	OLOGY 322	Environmental Microbiology	
	OLOGY 312	Mycology	
	OLOGY 304	Genetics Laboratory	
	hoose a minimum of 5 credits	•	
	CHEM 304	and Organic Chemistry Laboratory I	
-	HEM 302	Organic Chemistry I	
&	CHEM 301	and Bio-Organic Chemistry Laboratory	
CI	HEM 300	Bio-Organic Chemistry	
М	inimum of 4 credits of the follo	owing courses:	
BI	OLOGY 407	Molecular Biology	
	BIOLOGY 324	and Principles of Microbiology Laboratory	
BI	OLOGY 323	Principles of Microbiology	
Ы	or BIOLOGY 346	Comparative Physiology	
BI	OLOGY 311	Plant Physiology	

¹ Satisfied with an ACT English score of 32 or higher

Ecology and Conservation

Supporting Courses25-29BIOL OGY 201Principles of Biology: Cellular and Molecular Processes& BIOL OGY 202and Principles of Biology: Lab: Cellular and Molecular ProcessesBIOL OGY 203Principles of Biology: Organisms and Evolution& BIOL OGY 204and Principles of Biology: Lab: Organisms and Evolution& BIOL OGY 203and Principles of Chemistry I& CHEM 211Principles of Chemistry I& CHEM 212Principles of Chemistry I LaboratoryCHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):COMP SCI 256Introduction to Software DesignMATH 202Calculus and Analytic Geometry IMATH 203Technical WritingWriting (choose one course):INFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level Courses30-33Required CoursesBIOL OGY 303GeneticsBIOL OGY 304Principles of Enclopy	Code	Title	Credits
& BIOLOGY 202and Principles of Biology Lab: Cellular and Molecular ProcessesBIOLOGY 203Principles of Biology Lab: Organisms and Evolution& BIOLOGY 204and Principles of Biology Lab: Organisms and EvolutionCHEM 211Principles of Chemistry I& CHEM 213and Principles of Chemistry I LaboratoryCHEM 212Principles of Chemistry II& CHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):COMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Introduction to Software DesignINFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level CoursesSearch and RhetoricBIOLOGY 303Genetics	Supporting Courses		25-29
BIOLOGY 203Principles of Biology: Organisms and Evolution& BIOLOGY 204and Principles of Biology Lab: Organisms and EvolutionCHEM 211Principles of Chemistry I& CHEM 213and Principles of Chemistry I LaboratoryCHEM 212Principles of Chemistry II Laboratory& CHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):Introductory StatisticsCOMP SCI 256Introduction to Software DesignMATH 202Calculus and Analytic Geometry IMATH 203Calculus and Analytic Geometry IINFO SCI 390Technical WritingWF 105Research and RhetoricSoftagaBIOLOGY 303Genetics			
& BIOLOGY 204and Principles of Biology Lab: Organisms and EvolutionCHEM 211Principles of Chemistry I& CHEM 213and Principles of Chemistry I LaboratoryCHEM 212Principles of Chemistry II& CHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):Introductory StatisticsCOMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Introduction to Software DesignMTH 205Sci 2390Technical WritingWF 105Research and RhetoricUpper Level CoursesRequired CoursesBIOLOGY 303Genetics	& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
CHEM 211Principles of Chemistry I& CHEM 213and Principles of Chemistry I LaboratoryCHEM 212Principles of Chemistry II& CHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):COMP SCI 256COMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Intenduction to Software DesignINFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level CoursesRequired CoursesSoftware DesignBIOLOGY 303Genetics	BIOLOGY 203	Principles of Biology: Organisms and Evolution	
& CHEM 213and Principles of Chemistry I LaboratoryCHEM 212Principles of Chemistry II& CHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):COMP SCI 256COMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Technical WritingINFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level Courses30-33BIOLOGY 303Genetics	& BIOLOGY 204	and Principles of Biology Lab: Organisms and Evolution	
CHEM 212Principles of Chemistry II& CHEM 214and Principles of Chemistry II LaboratoryMATH 260Introductory StatisticsMathematics (choose one course):Introduction to Software DesignCOMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Technical WritingINFO SCI 390Technical WritingWF 105Research and Rhetoric30-33Required CoursesBIOLOGY 303Genetics	CHEM 211	Principles of Chemistry I	
& CHEM 214 and Principles of Chemistry II Laboratory MATH 260 Introductory Statistics Mathematics (choose one course): Introduction to Software Design COMP SCI 256 Introduction to Software Design MATH 104 Precalculus MATH 202 Calculus and Analytic Geometry I Writing (choose one course): Virting (choose one course): INFO SCI 390 Technical Writing WF 105 Research and Rhetoric Upper Level Courses 30-33 Required Courses Genetics	& CHEM 213	and Principles of Chemistry I Laboratory	
MATH 260Introductory StatisticsMathematics (choose one course):Introduction to Software DesignCOMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Calculus and Analytic Geometry IINFO SCI 390Technical WritingWF 105Research and Rhetoric30-33Required CoursesBIOLOGY 303Genetics	CHEM 212	Principles of Chemistry II	
Mathematics (choose one course): Introduction to Software Design COMP SCI 256 Introduction to Software Design MATH 104 Precalculus MATH 202 Calculus and Analytic Geometry I Writing (choose one course): Cechnical Writing INFO SCI 390 Technical Writing WF 105 Research and Rhetoric Vper Level Courses 30-33 Required Courses Genetics	& CHEM 214	and Principles of Chemistry II Laboratory	
COMP SCI 256Introduction to Software DesignMATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Technical WritingINFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level Courses30-33Required CoursesGeneticsBIOLOGY 303Genetics	MATH 260	Introductory Statistics	
MATH 104PrecalculusMATH 202Calculus and Analytic Geometry IWriting (choose one course):Calculus and Analytic Geometry IINFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level Courses30-33Required CoursesGenetics	Mathematics (choose one cours	e):	
MATH 202Calculus and Analytic Geometry IWriting (choose one course):Technical WritingINFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level Courses30-33Required CoursesGenetics	COMP SCI 256	Introduction to Software Design	
Writing (choose one course): 1 INFO SCI 390 Technical Writing WF 105 Research and Rhetoric Upper Level Courses 30-33 Required Courses Genetics	MATH 104	Precalculus	
INFO SCI 390Technical WritingWF 105Research and RhetoricUpper Level Courses30-33Required CoursesBIOLOGY 303GeneticsGenetics	MATH 202	Calculus and Analytic Geometry I	
WF 105 Research and Rhetoric Upper Level Courses 30-33 Required Courses BIOLOGY 303 Genetics	Writing (choose one course): ¹		
Upper Level Courses 30-33 Required Courses BIOLOGY 303 Genetics	INFO SCI 390	Technical Writing	
Required Courses BIOLOGY 303 Genetics	WF 105	Research and Rhetoric	
BIOLOGY 303 Genetics	Upper Level Courses		30-33
	Required Courses		
BIOLOGY 306 Principles of Ecology	BIOLOGY 303	Genetics	
biology finishes of Ecology	BIOLOGY 306	Principles of Ecology	
BIOLOGY 309 Evolutionary Biology	BIOLOGY 309	Evolutionary Biology	

BIOLOGY 469	Conservation Biology	
Cell or Microbiology (choose or	ne):	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
Physiology Course (choose one	e):	
BIOLOGY 311	Plant Physiology	
or BIOLOGY 346	Comparative Physiology	
Choose a minimum of 8 credits	from the following courses:	
BIOLOGY 310	Plant Biodiversity	
BIOLOGY 311	Plant Physiology	
BIOLOGY 312	Mycology	
BIOLOGY 320	Field Botany	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 342	Ornithology	
BIOLOGY 343	Mammalogy	
BIOLOGY 355	Entomology	
BIOLOGY 365	Aquatic Invertebrates	
ENV SCI 401	Stream Ecology	
BIOLOGY 357	Marine Biology	
BIOLOGY 401	Fish and Wildlife Population Dynamics	
ENV SCI 337	Environmental GIS	
ENV SCI 403	Limnology	
ENV SCI 467	Capstone in Environmental Science	
BIOLOGY 449	Wetland Ecology	
ENV SCI 499	Travel Course	
Seminar, 1 credit required		
BIOLOGY 490	Biology Seminar	
otal Credits		55-62

55-62

1 Satisfied with an ACT English score of 32 or higher

Ecology and Conservation (Accelerated) - Integrated with graduate Environmental Science & Policy program

Code Supporting Courses	Title	Credits 25-29
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
MATH 260	Introductory Statistics	
Mathematics (choose one cours	e):	
COMP SCI 256	Introduction to Software Design	
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
Writing (choose one course): ¹		
ENG COMP 105	English Composition II: Composition and Rhetoric	

INFO SCI 390	Technical Writing	
pper Level Courses		30-3
Required Courses		
BIOLOGY 303	Genetics	
BIOLOGY 306	Principles of Ecology	
BIOLOGY 309	Evolutionary Biology	
BIOLOGY 469	Conservation Biology	
Cell or Microbiology (Cho	•	
BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
Physiology Course (choo	ose one):	
BIOLOGY 311	Plant Physiology	
or BIOLOGY 346	Comparative Physiology	
Choose a minimum of 8 c	credits from the following courses:	
BIOLOGY 310/510	Plant Biodiversity #	
BIOLOGY 311/511	Plant Physiology #	
BIOLOGY 312/512	Mycology [#]	
BIOLOGY 320/520	Field Botany [#]	
BIOLOGY 322/522	Environmental Microbiology #	
BIOLOGY 342/542	Ornithology #	
BIOLOGY 343/543	Mammalogy [#]	
BIOLOGY 355/555	Entomology #	
BIOLOGY 357/557	Marine Biology [#]	
BIOLOGY 365	Aquatic Invertebrates	
BIOLOGY 401/601	Fish and Wildlife Population Dynamics #	
BIOLOGY 449	Wetland Ecology	
BIOLOGY 450/650	Ecological Restoration #	
ENV SCI 337/537	Environmental GIS [#]	
ENV SCI 401/601	Stream Ecology #	
ENV SCI 403/603	Limnology [#]	
ENV SCI 467	Capstone in Environmental Science	
ENV SCI 499	Travel Course	
Seminar, 1 credit required	d	
BIOLOGY 490	Biology Seminar	

Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Environmental Science & Policy office or refer to the graduate catalog (http://catalog.uwgb.edu/archive/2023-2024/graduate/general-information/ academic-rules-regulations/undergrad-in-accelerated/).

Microbiology

Code	Title	Credits
Supporting Courses		25-29
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203	Principles of Biology: Organisms and Evolution	
& BIOLOGY 204	and Principles of Biology Lab: Organisms and Evolution	
CHEM 211	Principles of Chemistry I	
& CHEM 213	and Principles of Chemistry I Laboratory	

CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laborator	/	
MATH 260	Introductory Statistics		
Mathematics (choose one course):			
MATH 104	Precalculus		
MATH 202	Calculus and Analytic Geometry I		
ENV SCI 336	Environmental Statistics		
ENV SCI 337	Environmental GIS		
Writing (choose one	course): ¹		
INFO SCI 390	Technical Writing		
WF 105	Research and Rhetoric		
Upper Level Courses ²		34-38	
Required courses			
BIOLOGY 306	Principles of Ecology		
BIOLOGY 311	Plant Physiology		
or BIOLOGY 346	Comparative Physiology		
BIOLOGY 303	Genetics		
BIOLOGY 309	Evolutionary Biology		
BIOLOGY 323	Principles of Microbiology		
& BIOLOGY 324	and Principles of Microbiology Laborato	у	
or BIOLOGY 322	Environmental Microbiology		
BIOLOGY 402	Advanced Microbiology		
Chemistry (minimum	of 8 credits of the following courses):		
CHEM 302	Organic Chemistry I		
& CHEM 304	and Organic Chemistry Laboratory I		
CHEM 303 & CHEM 305	Organic Chemistry II and Organic Chemistry Laboratory II		
CHEM 330	Biochemistry		
CHEM 331	Biochemistry Laboratory		
	or more credits from the following courses):		
BIOLOGY 307	Cell Biology		
BIOLOGY 308	Cell Biology Laboratory		
BIOLOGY 312	Mycology		
BIOLOGY 407	Molecular Biology		
BIOLOGY 408	Molecular Biology Laboratory		
BIOLOGY 497	Internship		
HUM BIOL 422	Immunology		
HUM BIOL 423	Immunology Lab		
Seminar (1 credit red	•••		
BIOLOGY 490	Biology Seminar		
	0,		

59-67

¹ Satisfied with an ACT English score of 32 or higher

Research experience and/or Internships are highly recommended. Credits from research and internships may be counted toward upper level electives.

Students planning to continue on to graduate school or a professional program are recommended to take calculus, physics and organic chemistry.

Pre-Veterinary

Code	Title	Credits
Supporting Courses		24-27
BIOLOGY 201	Principles of Biology: Cellular and Molecular Processes	
& BIOLOGY 202	and Principles of Biology Lab: Cellular and Molecular Processes	

	BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
	CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
	CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
	MATH 260	Introductory Statistics	
	Mathemetics (choose one cours		
	MATH 104	Precalculus	
	MATH 202	Calculus and Analytic Geometry I	
	ENV SCI 336	Environmental Statistics	
	ENV SCI 337	Environmental GIS	
	Writing (choose one course): ¹		
	ENG COMP 105	English Composition II: Composition and Rhetoric	
U	oper Level Courses		47
	BIOLOGY 303	Genetics	
	BIOLOGY 306	Principles of Ecology	
	BIOLOGY 309	Evolutionary Biology	
	BIOLOGY 346	Comparative Physiology	
	CHEM 302	Organic Chemistry I	
	& CHEM 304	and Organic Chemistry Laboratory I	
	CHEM 303	Organic Chemistry II	
	& CHEM 305	and Organic Chemistry Laboratory II	
	CHEM 330	Biochemistry	
	Cell Biology (choose one of the	following options):	
	BIOLOGY 307 & BIOLOGY 308	Cell Biology and Cell Biology Laboratory	
	BIOLOGY 323 & BIOLOGY 324	Principles of Microbiology and Principles of Microbiology Laboratory	
	Physics (choose one of the follo	wing options):	
	PHYSICS 103	Fundamentals of Physics I	
	& PHYSICS 104	and Fundamentals of Physics II	
	PHYSICS 201	Principles of Physics I	
	& PHYSICS 202	and Principles of Physics II	
	Choose a minimum of 8 credits	-	
	BIOLOGY 304	Genetics Laboratory	
	BIOLOGY 340	Comparative Anatomy of Vertebrates	
	BIOLOGY 342	Ornithology	
	BIOLOGY 343	Mammalogy	
	BIOLOGY 345	Animal Behavior	
	BIOLOGY 411	Developmental Biology Laboratory	
	HUM BIOL 422	Immunology	
	HUM BIOL 423	Immunology Lab	
	Seminar, 1 credit required		
	BIOLOGY 490	Biology Seminar	
Τα	otal Credits	71-	-74

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Satisfied with an ACT English score of 32 or higher