

## BA BIOLOGY—Cat. 129\*

Freshman Year			
First Semester	Cr	Second Semester	Cr
BIOL111 Intro Biology	4	BIOL112 Intro Biology	4
CHEM101 Fund. of Chem I	4	CHEM102 Fund. of Chem II	4
ENGL104 Comp & Rhet	3	HIST105 History of US	3
MATH166 Topics Contemp. Math	3	MATH131 Calculus	3
KINE198 Hlth&Fit Activity	<u>1</u>	KINE199 Physical Activity	<u>1</u>
	15		15

Sophomore Year			
First Semester	Cr	Second Semester	Cr
BIOL213 Molec. Cell Bio.	3	BIOL214 Genes, Ecology & Evol.	3
CHEM227 Organ. Chem I	3	CHEM228 Organ. Chem II	3
CHEM237 Organ. Chem Lab I	1	CHEM238 Organ. Chem Lab II	1
HIST106 History of US	3	PHYS202 College Physics	4
PHYS201 College Physics	4	#Communications Elect.	<u>3</u>
Elective	<u>3</u>		14
	17		

Junior Year			
First Semester	Cr	Second Semester	Cr
BICH410 Comp. Biochem I	3	BICH411 Comp. Biochem II	3
BICH412 Biochem. Lab I	1	BIOL357 Ecology	3
MICR351 Fund. Of Microbiology		BIOL358 Ecology Lab	1
or		POLS207 State and Local Govt.	3
GENE302 Genetics	4	+Elective	4
POLS206 American Natl. Govt.	3	Language	<u>4</u>
STAT302 Statistical Methods	3		18
Language	<u>4</u>		
	18		

Senior Year			
First Semester	Cr	Second Semester	Cr
Social/Behav. Science	3	*Botany Elect.	3- 4
Visual and Perf. Arts Elective	3	Humanities Elect.	3
^Zoology Elect.	3-4	+Electives	<u>9</u>
+Electives	<u>6</u>		16
	15-16		

#ENGL203, 210, 235, 236, 241, 301; COMM203, 205, 243

^Any 300 or 400 level ZOOL course; BIOL414, 440; ENTO313; WFSC311, 315, 401, 402

\*Any 300 or 400 level BOTN course; PPHY313 and 315

**One course in the degree plan must be a Writing Intensive course designated by the department in the schedule of classes**  
 +Minor required with 18 hours in one field. Electives CANNOT be AGEN102; AGLS101; AGRO101; BIMS101; BOTN101; BUAD100, 300; CHEM106, 116; EDCI120, 181; EPSY101, 102; FRSC101; HORT101; LAND200; MATH102-104; 130, 150; MICR206; RPTS101; WFSC101; ZOOL107, 219, 220; ENGL103; MLSC100-499; NVSC100-499; AERS100-499; DEVS001-003; CAEN100-499 (except CAEN101); CAEX100-499

**\*\*\*Must also incorporate International and Cultural Diversity requirement (6 hours) into electives\*\*\***

**BS BIOLOGY—Cat. 129\***

Freshman Year			
First Semester	Cr	Second Semester	Cr
BIOL111 Intro Biology	4	BIOL112 Intro Biology	4
CHEM101 Fund. of Chem I	4	CHEM102 Fund. of Chem II	4
ENGL104 Comp. & Rhet.	3	HIST105 History of US	3
MATH166 Topic Contemp. Math	3	MATH131 Calculus	3
KINE198 Hlth&Fit Activity	<u>1</u>	KINE199 Physical Activity	<u>1</u>
	15		15
Sophomore Year			
First Semester	Cr	Second Semester	Cr
BIOL213 Molec. Cell Bio.	3	BIOL214 Genes, Ecology & Evol.	3
CHEM227 Organic. Chem I	3	CHEM228 Organ. Chem II	3
CHEM237 Organic. Chem Lab I	1	CHEM238 Organ. Chem Lab II	1
HIST106 History of US	3	PHYS202 College Physics	4
PHYS201 College Physics	<u>4</u>	#Communications Elect.	3
	14	+Elective	<u>3</u>
			17
Junior Year			
First Semester	Cr	Second Semester	Cr
BICH410 Comp. Biochem I	3	BICH411 Comp. Biochem II	3
BICH412 Biochem Lab I	1	^Biology Elects.	6-8
MICR351 Fun. Of Microbiology	4	POLS207 State and Local Govt.	3
POLS206 American Natl. Govt.	3	+Electives	<u>6</u>
STAT302 Statistical Methods	3		18-20
GENE302 Genetics	<u>4</u>		
	18		
Senior Year			
First Semester	Cr	Second Semester	Cr
^Biology Elects.	8	^Biology Elects.	7-8
Humanities Elect.	3	Visual and Perf. Arts Elective.	3
Social/Behav. Science	3	+Elective	<u>4</u>
+Elective	<u>3</u>		14-15
	17		

#ENGL203, 210, 235, 236, 241, 301; COMM203, 205, 243

^Any 300 or 400 level BIOL, BOTN, MICR, ZOOL, MEPS course; VIBS343; any 400 level GENE (**One BIOL elective must be a university-approved writing-intensive course**)

+Electives CANNOT be AGEN102; AGLS101; AGRO101; BIMS101; BIOL219, 220, 206; BOTN101; BUAD100, 300; CHEM106, 116; EDCI120, 181; EPSY101, 102; FRSC101; HORT101; LAND200; MATH102-104; 130, 150; MICR206; RPTS101; WFSC101; ZOOL107; ENGL103; MLSC100-499; NVSC100-499; AERS100-499; DEVS001-003; CAEN001-499 (except CAEN101); CAEX001-499

**\*\*\*Must also incorporate International and Cultural Diversity requirement (6 hours) into electives\*\*\***

**MICROBIOLOGY—Cat. 128\***

Freshman Year			
First Semester	Cr	Second Semester	Cr
BIOL111 Intro Biology	4	BIOL112 Intro Biology	4
CHEM101 Fund. of Chem I	4	CHEM102 Fund. of Chem II	4
ENGL104 Comp. & Rhet.	3	HIST105 History of US	3
MATH166 Topics in Contemp. Math	3	MATH131 Calculus	3
KINE198 Hlth&Fit Activity	<u>1</u>	KINE199 Physical Activity	<u>1</u>
	15		15
Sophomore Year			
First Semester	Cr	Second Semester	Cr
BIOL213 Molec. Cell Biology	3	BIOL214 Genes, Ecology & Evol.	3
CHEM227 Organ. Chem I	3	CHEM228 Organ. Chem II	3
CHEM237 Organ. Chem Lab I	1	CHEM238 Organ. Chem Lab II	1
HIST106 History of US	3	MICR351 Fund. of Microbiology	4
PHYS201 College Physics	<u>4</u>	PHYS202 College Physics	<u>4</u>
	14		15
Junior Year			
First Semester	Cr	Second Semester	Cr
BICH410 Comp. Biochem I	3	BICH411 Comp. Biochem II	3
GENE302 Genetics	4	BICH414 Biochemical Techniques	2
STAT302 Statistical Methods	3	MICR406 Bacterial Genetics	3
Visual and Perf. Arts Elective	3	POLS206 American Natl. Govt.	3
+Elective	<u>3</u>	^Biology Elect.	4
	16	Humanities Elect.	<u>3</u>
			18
Senior Year			
First Semester	Cr	Second Semester	Cr
MICR438 Bacterial Physiology	4	*Microbiology Elects.	6-8
POLS207 State and Local Govt.	3	Social/Behav. Science	3
^Biology Elect.	4	+Elective	<u>8</u>
*Microbiology Elects.	4		
#Communications Elective	<u>3</u>		17-19
	18		

#ENGL203, 210, 235, 236, 241, 301; COMM203, 205, 243

\*Any 300 or 400 level MICR course

^Any 300 or 400 level BIOL, BOTN, MICR, ZOOL; any 400 level BESC, BICH, CHEM, GENE; or AGRO405, 455; CHEM315 and 318, 323, 324; DASC326 and 327; MEPS313 and 315; VTPB487; VTPB406 (**One BIOL elective must be a university approved writing-intensive course**).

+Electives CANNOT be AGEN102; AGLS101; AGRO101; BIMS101; BIOL219, 220, 206; BOTN101; BUAD100, 300; CHEM106, 116; EDCI120, 181; EPSY101, 102; FRSC101; HORT101; LAND200; MATH102-104; 130, 150; MICR206; RPTS101; WFSC101; ZOOL107; ENGL103; MLSC100-499; NVSC100-499; AERS100-499; DEVS001-003; CAEN001-499 (except CAEN101); CAEX001-499

**\*\*\*MUST INCORPORATE INTERNATIONAL AND CULTURAL DIVERSITY REQUIREMENT (6 HOURS) INTO ELECTIVES\*\*\***

**MOLECULAR AND CELL BIOLOGY—Cat. 128\***

Freshman Year			
First Semester	Cr	Second Semester	Cr
BIOL111 Intro Biology	4	BIOL112 Intro Biology	4
CHEM101 Fund. of Chem I	4	CHEM102 Fund. of Chem II	4
ENGL104 Comp. & Rhet.	3	HIST105 History of US	3
MATH166 Topics in Contemp. Math	3	MATH131 Calculus	3
KINE198 Hlth&Fit Activity	<u>1</u>	KINE199 Physical Activity	<u>1</u>
	15		15

Sophomore Year			
First Semester	Cr	Second Semester	Cr
BIOL213 Molec. Cell Biology	3	BIOL214 Genes, Ecology & Evol.	3
CHEM227 Organ. Chem I	3	CHEM228 Organ. Chem II	3
CHEM237 Organ. Chem Lab I	1	CHEM238 Organ. Chem Lab II	1
HIST106 History of US	3	PHYS202 College Physics	4
PHYS201 College Physics	<u>4</u>	#Communications Elect.	3
	14	Elective	<u>3</u>
			17

Junior Year			
First Semester	Cr	Second Semester	Cr
BICH410 Comp. Biochem I	3	BICH411 Comp. Biochem II	3
GENE302 Genetics	4	BICH414 Biochemical Techniques	2
POLS206 American Natl. Govt.	3	BICH431 Molecular Genetics	3
STAT302 Statistical Methods	3	Humanities Elect.	3
Visual and Perf. Arts Elective	<u>3</u>	MICR351 Fund. of Microbiology	4
	16	+Elective	<u>3</u>
			18

Senior Year			
First Semester	Cr	Second Semester	Cr
BIOL413 Cell Biology	3	*Biology Electives	6-8
BIOL414 Developmental Biology	3	^Molec/Cell Elects	3-4
BIOL423 Cell Biology Lab	1	Social Science Elect.	3
POLS207 State and Local Govt.	3	+Electives	<u>4</u>
^Molec/Cell Elects	4		16-19
+Elective	<u>3</u>		
	17		

#ENGL203, 210, 235, 236, 241, 301; COMM203, 205, 243

\*Any 300 or 400 level BIOL, BOTN, MICR, ZOOL course; PPHY313 and 315; VAPH343 (**One BIOL elective must be a university approved writing intensive course**).

^BICH432, 489; BIOL430, 466, 485, 489, 491; CHEM323, 324; GENE450; MICR360, 406, 438, 445, 454; ZOOL344

+Electives CANNOT be AGEN102; AGLS101; AGRO101; BIMS101; BIOL219, 220, 206; BOTN101; BUAD100, 300; CHEM106, 116; EDCI120, 181; EPSY101, 102; FRSC101; HORT101; LAND200; MATH102-104; 130, 150; MICR206; RPTS101; WFSC101; ZOOL107; ENGL103; MLSC100-499; NVSC100-499; AERS100-499; DEVS001-003; CAEN001-499; CAEX001-499

**\*\*\*Must also incorporate International and Cultural Diversity Electives (6 hours) into electives\*\*\***

## ZOOLOGY—Cat. 128\*

Freshman Year			
First Semester	Cr	Second Semester	Cr
BIOL111 Intro. Biology	4	BIOL112 Intro. Biology	4
CHEM101 Fund. of Chem I	4	CHEM102 Fund. of Chem II	4
ENGL104 Comp. & Rhet.	3	HIST105 History of US	3
MATH166 Topics in Contemp. Math	3	MATH131 Calculus	3
KINE198 Hlth&Fit Activity	<u>1</u>	KINE199 Physical Activity	<u>1</u>
	15		15

Sophomore Year			
First Semester	Cr	Second Semester	Cr
BIOL213 Molec. Cell Biology	3	BIOL214 Genes, Ecology & Evol.	3
CHEM227 Organ. Chem I	3	CHEM228 Organ. Chem II	3
CHEM237 Organ. Chem Lab I	1	CHEM238 Organ. Chem Lab II	1
HIST106 History of US	3	PHYS202 College Physics	4
PHYS201 College Physics	<u>4</u>	#Communications Elect.	<u>3</u>
	14		14

Junior Year			
First Semester	Cr	Second Semester	Cr
BICH410 Comp. Biochem I	3	BICH411 Comp. Biochem II	3
BICH412 Biochem Lab I	1	POLS206 American Natl. Govt.	3
STAT302 Statistical Methods	3	ZOOL388 Animal Pysiology	4
ZOOL318 Chordate Anatomy	4	Humanities Elect.	3
*Zoology Dir. Elect.	4	ZOOL335 Invertebrate Zoology	<u>4</u>
Visual and Perf. Arts Elective	<u>3</u>		17
	18		

Senior Year			
First Semester	Cr	Second Semester	Cr
*Zoology Dir. Elect.	4	POLS207 State and Local Govt.	3
§Zoology Special.	6-8	Social/Behav. Science	3
+Elective	<u>8</u>	§Zoology Special.	6-8
	18-20	Electives	<u>4</u>
			16-18

#ENGL203, 210, 235, 236, 241, 301; COMM203, 205, 243

\***Zoology Directed Electives:** BIOL 357/358; GENE 302; or ZOOL 344

§**Zoology Specializations:**

**Development:** BIOL 413/423, 414, 430; GENE 431; ZOOL 344, 434/435

**Ecology/Evolution:** BIOL 357/358, 440, 466; ENTO 313; GENE 412; WFSC 311, 315, 401, 402, 422

**Physiology and Neuroscience:** BIOL 413; GENE 431; MICR 454; WFSC 422; ZOOL 405, 434/435

**Pre-Veterinary Medicine:** GENE 302; MICR 351; NUTR 303; any elective previously listed

**General Zoology:** Any courses listed above or any 300-400 level BOTN or MICR or any 400 level GENE

**One course in the degree plan must be a Writing Intensive course designated by the department in the schedule of classes**

**\*\*\*Must also incorporate International and Cultural Diversity requirement (6 hours) into electives\*\*\***