

COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

NAME _____

S.S.# _____

Courses required for the B.S. Degree in Biology (**General Biology Concentration**) are listed in sequence by year and semester.

FRESHMAN YEAR							
FALL SEMESTER			CH	Gr.	Sem.	Yr.	SPRING SEMESTER
BIOL	113	Prin. of Biol. Lect.	3	_____	_____	_____	BIOL 114 Prin. of Biol. Lect.
BIOL	115	Prin. of Biol. Lab.	1	_____	_____	_____	BIOL 116 Prin. of Biol. Lab.
FYE	101	First Year Experience	1	_____	_____	_____	FYE 102 First Year Experience
ENG	101	Freshman Composition	3	_____	_____	_____	ENG 102 Freshman Composition
CHEM	111	Gen. Chem. Lect.	3	_____	_____	_____	MATH 148 Precalculus II
CHEM	113	Gen. Chem. Lab.	1	_____	_____	_____	CHEM 112 Gen. Chem. Lect.
MATH	147	Precalculus I	<u>3</u>	_____	_____	_____	CHEM 114 Gen. Chem. Lab.
			15				15
SOPHOMORE YEAR							
BIOL	202	Develop. Biol. Lect./Lab.	4	_____	_____	_____	BIOL 206 Fund. Ecology Lect./Lab.
ENG	200	World Literature	3	_____	_____	_____	PHYS 110 Fund. of Physics Lect.
PHYS	109	Fund. of Physics Lect.	3	_____	_____	_____	PHYS 112 Fund. of Physics Lab
PHYS	111	Fund. of Physics Lab	1	_____	_____	_____	HIST 101 Western Civilization
CHEM	223	Organic Chem. Lect.	3	_____	_____	_____	GET 300* Rising Junior Examination
CHEM	225	Organic Chem. Lab	<u>1</u>	_____	_____	_____	CHEM 224 Organic Chem. Lect
			15				CHEM 226 Organic Chem. Lab.
							15
JUNIOR YEAR							
BIOL	302	Genetics Lect./Lab.	4	_____	_____	_____	ECON 201 Macroeconomics
BIOL	304	Intro. Micro. Lect./Lab	4	_____	_____	_____	MATH 153 Calculus I
CHEM	461	Biochemistry	3	_____	_____	_____	Foreign Language Elective**
Foreign Language Elective**			3	_____	_____	_____	BIOL. 305 Anat. & Phys. Lect./Lab
SOC	101	Intro. to Social Science	<u>3</u>	_____	_____	_____	HIST 104 Modern World History
			17				16

General Biology Concentration (cont'd)

<u>FALL SEMESTER</u>				<u>SENIOR YEAR</u>				<u>SPRING SEMESTER</u>					
		CH	Gr.	Sem.	Yr.					CH	Gr.	Sem.	Yr.
ART 210	Intro. to Fine					BIOL 408	Seminar			1			
	Performing Arts	3				BIOL 463	Cell & Molecular Biol. Lect. II			3			
BIOL 459	Cell & Mol. Biol. Lect. I	3				BIOL 465	Cell & Molecular Biol. Lab. II			1			
BIOL 461	Cell & Mol. Biol. Lab. I	1				BIOL 499	Senior Project			3			
Electives***		<u>6</u>				Electives***				<u>6</u>			
		13								14			

*The Rising junior Examination (RJE.) must be taken during the second semester of the sophomore year.

**The six hours of foreign Language is met by completing six hours in the same language.

***Electives (Must be approved by Advisor and Department Head.)

****Student must have the instructor's permission to enroll in this course.

Biology Electives include the following:

BIOL 215—Introductory to Epidemiology	3	BIOL 406--Internship in Biology****	3
BIOL 216--Environmental Biology	4	BIOL 407--Ethics in Scientific Research	3
BIOL 307--Anatomy & Physiology II	4	BIOL 409--Biological Research	3
BIOL 312--Principles of Toxicology	3	BIOL 411--Vertebrate Zoology	4
BIOL 315--Water Quality Management	4	BIOL 417--Conservation Biology	3
BIOL 318--Alcohol/Drug Abuse ****	3	BIOL 418--Environ. Issues & Policies	3
BIOL 320--Environmental Systems	3	BIOL 419--Comp. Verte. Anatomy	4
BIOL 402--Vertebrate Histology	4	BIOL 434--Contemporary Botany	4
BIOL 403--Parasitology	4		

Total Degree Requirements

General Biology Concentration.....120

Biology majors aspiring to enter **Medical, Dental, Pharmacy, Veterinary** or **Graduate school** should take the appropriate test--**Medical College Admission Test (MCAT); Dental Admission Test (DAT); Pharmacy College Admission Test (PCAT); Veterinary College Admission Test (VCAT); Graduate Record Exam (GRE)**--- during the latter part of their junior year. Majors should register with the GSU Biology Department's Pre-professional Advisory Committee and begin serious test preparation early during their freshman year. It is strongly suggested that the following courses be completed prior to taking the test: **Biology**(113-115, 114-116, 202, 302, 304, 305) **Chemistry** (111-113,112-114, 223-225,224-226) **Math** (153,154) and **Physics**(109-111, 110-112).

Complete this section when you submit your application for graduation. Submit a signed copy of this form with your application and transcript.

Hours completed toward degree _____
Additional hours needed for graduation _____

Hours enrolled in this semester _____
Total hours at the end of this semester _____

Advisor's Signature/ Date

Student's Signature/ Date

Effective: Fall 2011

COLLEGE OF ARTS AND SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

NAME _____

S.S.# _____

Courses required for the B.S. Degree in Biology (**Environmental Science Concentration**) are listed in sequence by year and semester.

FRESHMAN YEAR

FALL SEMESTER

	CH	Gr.	Sem.	Yr.
BIOL 113 Prin. of Biol. Lect.	3	_____	_____	_____
BIOL 115 Prin. of Biol. Lab.	1	_____	_____	_____
FYE 101 First Year Experience	1	_____	_____	_____
ENG 101 Freshman Composition	3	_____	_____	_____
CHEM 111 Gen. Chem. Lect.	3	_____	_____	_____
CHEM 113 Gen. Chem. Lab.	1	_____	_____	_____
MATH 147 Precalculus I	<u>3</u>	_____	_____	_____
	15			

SPRING SEMESTER

	CH	Gr.	Sem.	Yr.
BIOL 114 Prin. of Biol. Lect.	3	_____	_____	_____
BIOL 116 Prin. of Biol. Lab.	1	_____	_____	_____
FYE 102 First Year Experience	1	_____	_____	_____
ENG 102 Freshman Composition	3	_____	_____	_____
MATH 148 Precalculus II	3	_____	_____	_____
CHEM 112 Gen. Chem. Lect.	3	_____	_____	_____
CHEM 114 Gen. Chem. Lab.	<u>1</u>	_____	_____	_____
	15			

SOPHOMORE YEAR

HIST 101 Western Civilization	3	_____	_____	_____
ENG 200 World Literature	3	_____	_____	_____
PHYS 109 Fund. of Physics Lect.	3	_____	_____	_____
PHYS 111 Fund. of Physics Lab	1	_____	_____	_____
SOC 101 Intro. to Social Science	3	_____	_____	_____
CHEM 223 Organic Chem. Lect.	3	_____	_____	_____
CHEM 225 Organic Chem. Lab	<u>1</u>	_____	_____	_____
	17			

HIST 104 Modern World History	3	_____	_____	_____
PHYS 110 Fund. of Physics Lect.	3	_____	_____	_____
PHYS 112 Fund. of Physics Lab	1	_____	_____	_____
BIOL 206 Fund. of Ecology Lect./Lab	4	_____	_____	_____
MATH 273 Probability & Statistics	3	_____	_____	_____
CHEM 224 Organic Chem. Lect.	3	_____	_____	_____
CHEM 226 Organic Chem. Lab	1	_____	_____	_____
GET 300* Rising Junior Examination	<u>0</u>	_____	_____	_____
	18			

JUNIOR YEAR

BIOL 302 Genetics Lect./Lab.	4	_____	_____	_____
BIOL 304 Intro. Micro. Lect./Lab	4	_____	_____	_____
MATH 153 Calculus I	3	_____	_____	_____
Foreign Language Elective**	<u>3</u>	_____	_____	_____
	14			

BIOL 312 Principles of Toxicology	3	_____	_____	_____
Foreign Language Elective**	3	_____	_____	_____
BIOL 315 Water Quality Mgtm. Lect./Lab	4	_____	_____	_____
BIOL 215 Introductory Epidemiology	3	_____	_____	_____
Elective	<u>3</u>	_____	_____	_____
	16			

Environmental Science Concentration (cont'd)

<u>FALL SEMESTER</u>				<u>SENIOR YEAR</u>				<u>SPRING SEMESTER</u>			
	CH	Gr.	Sem.	Yr.		CH	Gr.	Sem.	Yr.		
ART 210					Introduction to Fine & Performing Arts	3					
BIOL 408					Seminar	1					
BIOL 409					Biological Research	3					
Electives***						<u>6</u>					
						13					
					ECON 201						
					Macroeconomics	3					
					BIOL 499						
					Senior Project	3					
					BIOL 418						
					Environ. Issues & Policies	3					
					Electives***	<u>3</u>					
						12					

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**The six hours of foreign Language is met by completing six hours in the same language.

***Electives (Must be approved by Advisor and Department Head.)

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Biology Electives include the following:

BIOL216—Environmental Biology	4	BIOL 411—Vertebrate Zoology	4
BIOL 305—Anatomy & Physiology	4	BIOL 417--Conservation Biology	3
BIOL 307--Anatomy & Physiology II	4	BIOL 419—Comparative Verte. Anatomy	4
BIOL 318—Alcohol & Drug Abuse****	3	BIOL 434—Contemporary Botany	4
BIOL 320--Environmental Systems	3	BIOL 459--Cell & Molecular Biol. Lect. I	3
BIOL 402—Vertebrate Histology	4	BIOL 461—Cell & Molecular Biol. Lab I	1
BIOL 403—Parasitology	4	BIOL 463—Cell & Molecular Biol. Lect. II	3
BIOL 406--Internship in Biology	3	BIOL 465--Cell & Molecular Biol. Lab II	1
BIOL 407--Ethics in Scientific Research	3		

Total Degree Requirements

Environmental Science Concentration.....120

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