

**California University of PA**  
**Eberly College of Science and Technology**  
**Department of Biological and Environmental Sciences**  
**Fisheries and Wildlife Concentration**  
**Bachelor of Science in Environmental Studies (120 credits)**

Name \_\_\_\_\_

Student ID Number \_\_\_\_\_

**General Education (51 credits)**

	Crs	Grade
<b>Building a Sense of Community – 1 credit</b>		
<u>UNI 100 First Year Seminar</u>	1	_____

<b>Critical Thinking Skills - 3 credits</b>		
_____	3	_____

<b>Communication Skills 6 credits</b>		
<u>ENG 101 Composition I</u>	3	_____
<u>ENG 102 Composition II</u>	3	_____

<b>Public Speaking – 3 credits</b>		
<u>COM 101 Oral Communication*</u>	3	_____

<b>Mathematics – 3 credits</b>		
<u>MAT 181 College Algebra</u>		
<b>OR</b> <u>MAT 281 Calculus I<sup>G</sup></u>		
<u>OR MAT 273 Basic Calculus<sup>G</sup></u>	3	_____

<b>Natural Sciences – 8 credits</b>		
<u>CHE 101 General Chemistry I*</u>	4	_____
<u>CHE 102 General Chemistry II*</u>	4	_____

<b>Social Sciences – 6 credits</b>		
_____	3	_____
_____	3	_____

<b>Humanities and Fine Arts – 6 credits**</b>		
_____	3	_____
_____	3	_____

<b>Multicultural Awareness – 3 credits</b>		
_____	3	_____

<b>Values – 3 credits</b>		
_____	3	_____

<b>Technological Literacy – 6 credits</b>		
<u>CSC 101 Personal Productivity Software*</u>		
<b>OR</b> <u>CSC 201 Windows and Internet*</u>	3	_____
_____	3	_____

<b>Health and Wellness – 3 credits</b>		
_____	3	_____

<b>Writing Component Courses (two courses required)</b>		
_____	_____	_____
_____	_____	_____

<sup>W</sup> To be certified as a Wildlife Biologist requires some additional coursework – see advisor

**Major (59/60 credits)**

	Crs	Grade
<b>Required Courses: Biology Core (30 credits)</b>		

BIO 115 Principles of Biology	4	_____
BIO 120 General Zoology	4	_____
BIO 125 General Botany	4	_____
BIO 310 General Ecology	4	_____
BIO 318 Genetics	4	_____
BIO 336 Plant Taxonomy <b>OR</b> BIO 442 Dendrology <sup>W</sup>	4	_____
MAT 215 Statistics	3	_____
ENS 495 Design and Analysis	3	_____

<b>Physical Science Core (3/4 credits)</b>		
Electives (PHS 137, CHE 331 <sup>G</sup> , PHY 121 <sup>G</sup> , EAS 202, or EAS 150 (choose one))	3/4	_____

<b>Fisheries and Wildlife Management (12 credits)</b>		
ENS 420 Principles of Wildlife Mgmt	4	_____
ENS 424 Principles of Fisheries Mgmt	4	_____
ENS 492 Animal Population Dynamics	4	_____

<b>Fisheries and Wildlife Biology (8 credits)</b>		
BIO 337 Ornithology	4	_____
BIO 400 Mammalogy	4	_____
BIO 433 Herpetology	4	_____
BIO 435 Ichthyology	4	_____
BIO 445 Entomology	4	_____
BIO 488 Water Pollution Biology	4	_____

<b>Law Policy and Planning (6 credits)</b>		
ENS 435 Natural Resource Law and Policy	3	_____
GEO 311 Geographic Information Systems	3	_____
GEO 362 Site Planning and Design	3	_____
GEO 365 Recreation Resource Mgmt	3	_____

<b>Unrestricted electives – (9/10 credits)</b>		
_____	_____	_____
_____	_____	_____
_____	_____	_____

**Note:**  
<sup>\*</sup>**Required Courses:** If these courses are not taken as part of the student's general education, they should be completed as electives.

<sup>\*\*</sup>3 credits must come from the Humanities menu and 3 credits must come from the Fine Arts menu.

<sup>G</sup> Courses recommended if student wishes to pursue graduate school

UCC approval date: 2/25/08

**Bachelor of Science in Biology  
Fisheries and Wildlife Biology Concentration**

Course #	Title	Credits	Course #	Title	Credits
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**Freshman 1<sup>st</sup> Semester**

BIO 115	Principles of Biology	04
CHE 101	General Chemistry I	04
ENG 101	English Comp. I	03
UNI 100	First Year Seminar	01
	General Education Requirement	<u>03</u>
	TOTAL CREDITS	15

**Freshman 2<sup>nd</sup> Semester**

BIO 120	General Zoology	04
BIO 125	General Botany	04
ENG 102	English Comp. II	03
CHE 102	General Chemistry II	<u>04</u>
	TOTAL CREDITS	15

**Sophomore 1<sup>st</sup> Semester**

BIO 310	General Ecology	04
MAT 181 or 273 or 281		03
COM 101	Oral Communications	03
	General Education Requirements	<u>06</u>
	TOTAL CREDITS	16

**Sophomore 2<sup>nd</sup> Semester**

BIO 318	Genetics	04
	Physical Science Requirement	03/04
CSC 101	Micros/Appl Soft. OR 201 Windows/Internet	03
	General Education Requirements	<u>06</u>
	TOTAL CREDITS	16/17

**Junior 1<sup>st</sup> Semester**

ENS 420	Wildlife Manage. OR 424 Fisheries Management	04
	Fisheries or Wildlife Bio courses	04
CSC 101	Micros/Appl Soft. OR 201 Windows/Internet	03
MAT 215	Statistics	03
	General Education Requirement	<u>03</u>
	TOTAL CREDITS	17

**Junior 2<sup>nd</sup> Semester**

ENS 492	Animal Pop Dynamics	04
	Fisheries or Wildlife Bio courses	04
	General Education Requirements	03
ENS 495	Design & Analysis	<u>04</u>
	TOTAL CREDITS	18

**Senior 1<sup>st</sup> Semester**

ENS 420	Wildlife Manage. OR 424 Fisheries Management	04
BIO 336	Plant Taxonomy OR BIO 442 Dendrology	04
	Unrestricted Electives	03
	TOTAL CREDITS	<u>15</u>

**Senior 2<sup>nd</sup> Semester**

	Fisheries or Wildlife Bio courses	04
	General Education Requirement	03
	Unrestricted Electives	05/06
	Law Policy & Planning	03
	TOTAL CREDITS	<u>15/16</u>

TOTAL CREDITS FOR DEGREE - 120