r			
	UF Wildlife Ecology and Conservation Major		
	Model 8-Semester Advising Sheet		
	Specialization: Wildlife Ecology & Conservation		
	Lower Division Curriculum: Semesters 1-4		
Semester 1, Fall			
Course Number	Title of Course	Credits	Prerequisites
BSC 2010 & 2010L	Integrated Principles of Biology I and Lab (Gen Ed-Biological	4	
	Sciences)		
	Critical Tracking Course		
WIS 2920	Wildlife Colloquium	1	
	State Core Gen Ed Composition; WR 6,000 words	3	
	State Core Gen Ed Humanities	3	
	Elective	2	
		Total = 13	
Semester 2, Spring			
Course Number	Title of Course	Credits	Prerequisites
UF Requirement	Quest 1 (Gen Ed-Humanities)	3	
ECO 2023 or	Principles of Microeconomics or	3-4	
AEB 2014 or	Economic Issues, Food and You or		
AEB 3103	Principles of Food and Resource Economics		
(Choose One)	All are Gen Ed-Social and Behavioral Sciences)		
	Critical Tracking Course-choose 1		
BSC 2011 & 2011L	Integrated Principles of Biology II and Lab (Gen Ed-Biological	4	BSC 2010 &
	Sciences)		2010L
	Critical Tracking Course		
STA 2023	Introduction to Statistics 1 (State Core Gen Ed-Mathematics)	3	
	Critical Trackina Course		
	State Core Gen Ed Social and Behavioral Sciences	3	
		Total = 16-17	
Semester 3, Fall			
Course Number	Title of Course	Credits	Prerequisites
CALS Requirement:	Effective Oral Communication	3	·
AEC 3030C			
	Note: SPC 2608 will substitute		
CALS Requirement:	Writing for Agricultural and Natural Resources	3	
AEC 3033C	(6.000 WR – Provides 6.000 words)	-	
	Note: ENC 2210 or ENC 3254 will substitute		
CHM 2045 & 2045L	General Chemistry Land Lab (State Core Gen Ed-Biological and	4	MAC 1147 and
	Physical Sciences)		ALEKS of 76%
	Critical Tracking Course		
	Ecology Common Requirement, see page 3	3-4	
	Gen Ed-Composition: WB 6 000 words	3	
		Total = 16-17	
Semester 4, Spring		10101 - 10 17	
Course Number	Title of Course	Credits	Prerequisites
UF Requirement	Ouest 2 (Gen Ed-Social and Behavioral Sciences)	3	
MAC 2311	Analytic Geometry and Calculus I (Gen Ed-Mathematics)	4	Student must
	Critical Tracking Course		take ALEKS
			Assessment on
			One.UF
SWS 3022 & 30221	Introduction to Soils in the Environment and Lab (Gen Ed-Physical	4	
	Sciences)	-	
	Tauaht Fall. Spring and Summer Semesters		
WIS 3402 & 34021	Wildlife of Florida and Lab	4	
	Tauaht Spring Semester Only	-	
	·····	Total = 15	
1			

	UF Wildlife Ecology and Conservation Major		
	Model 8-Semester Advising Sheet		
	Specialization: Wildlife Ecology & Conservation		
	Upper Division Curriculum: Semesters 5-8		
Semester 5, Fall			
Course Number	Title of Course	Credits	Prerequisites
WIS 3401	Wildlife Ecology and Management Critical Tracking Course	3	BSC 2011 &
	Taught Fall and Spring Semesters		2011L
WIS 4945	Wildlife Techniques	3	WIS 3402
	Taught Fall and Spring Semesters		
	OR GIS Common Requirement, see page 3		
	Plant Diversity and Taxonomy Common Requirement 1, see page 3	3	
	Wildlife Biology Common Requirement, see page 3 or Focus Course	3-4	
	Invertebrate Biology Common Requirement, see page 3	3-4	
		Total = 15-18	
Semester 6, Spring			1
Course Number	Title of Course	Credits	Prerequisites
WIS 3553C	Introduction to Conservation Genetics Critical Tracking Course	4	STA 2023 &
	Taught Spring Semester Only		Ecology
WIS 4945	Wildlife Techniques	3	WIS 3402
	Taught Fall and spring Semesters		
	OR GIS Common Requirement, see page 3.		
	Plant Diversity and Taxonomy Common Requirement 2, see page 3	3	
	Wildlife Biology Common Requirement, see page 3 or Focus Course	3-4	
		Total = 13-15	
Summer A			
Course Number	Title of Course	Credits	Prerequisites
WIS 4945L	Wildlife Techniques Lab	1	WIS 4945 & WIS
			3402
		Total = 1	
Semester 7, Fall			
Course Number	Title of Course	Credits	Prerequisites
WIS 4601C	Quantitative Wildlife Ecology Critical Tracking Course Taught Fall	3	STA 2023 & WIS
	and Spring Semesters		3401
	Note: WIS 4601C should be taken prior to WIS 4501		
	Conservation Common Requirement, see page 3 or Focus Course	3	
	Human Dimensions Common Requirement, see page 3	3	
	Natural Resource Policy Common Requirement, see page 3	3	
	Focus Course or Elective	3-4	
		Total = 15-16	
Semester 8, Spring			
Course Number	Title of Course	Credits	Prerequisites
WIS 4501	Introduction to Wildlife Population Ecology Critical Tracking Course	3	WIS 3401,
	Taught Fall and Spring Semesters		Ecology &
	Note: WIS 4501 should be taken after WIS 4601C		Genetics
	Conservation Common Requirement, see page 3 or	3-4	
	Focus Course		
	Elective or Focus Course	3	
	Focus Course	3	
	Elective	3	
		Total = 15-16	

WEC Common Requirements – All Wildlife majors, except Pre-Professional, will select courses from each of these 8 categories of common course requirements. Total common requirements taken will equal a minimum of 9 courses totaling at least or more than 27 credit hours:

Invertebrate Biology Common Requirement (choose 1):

Course Number and Title	Credits	Semester
ENY 3005/3005L Principles of Entomology and Lab	3	Fall, Spring, Summer C
ENY 4210 Insects and Wildlife	3	Fall
ZOO 4205C Invertebrate Biodiversity	4	Spring/Summer C

Ecology Common Requirement (choose 1):

Course Number and Title	Credits	Semester
FOR 3153C Forest Ecology	3	Fall & Spring
PCB 3601C Plant Ecology	3	Spring
PCB 4043C General Ecology	4	Fall & Summer C
WIS 3404 Natural Resource Ecology	3	Fall – online course

Geographic Information Common Requirement (choose 1):

Course Number and Title	Credits	Semester
FOR 3434C - Forest Resources Information Systems	3	Summer B
URP 4273 - Survey of Planning Information Systems	3	Fall
GIS 3072C Geographic Information Systems & Lab	3	Fall
GIS 3043 - Foundations of Geographic Information Systems	4	Fall, Spring, Summer A

Plant Diversity & Taxonomy Common Requirement (choose 2):

Course Number and Title	Credits	Semester
BOT 2011C Plant Diversity	4	Spring
BOT 2710C Practical Plant Taxonomy	3	Fall
BOT 3151C Local Flora of North Florida	3	Fall, Spring & Summer B
FNR 3131C Dendrology/Forest Plants	3	Fall
ORH 3513C Environmental Plant Identification and Use	3	Fall & Summer C

Vertebrate/Wildlife Biology Common Requirement (choose 1):

Course Number and Title	Credits	Semester
ZOO 4307C Vertebrate Biodiversity	4	Fall
WIS 4424 Large Mammal Ecology and Management	3	Spring in even years
ZOO 4472C Avian Biology	4	Spring
ZOO 4962C Herpetology	3	Spring
ANT 3555 or WIS 4934 The Primates	3	Fall
WIS 4934 Conservation of Amphibians and Reptiles	3	Fall in even years
WIS 4934 Invasion/Ecology of Amphibians and Reptiles	3	Fall in odd years

Human Dimensions Common Requirement (choose 1):

Course Number and Title	Credits	Semester
FNR 4070C - Environmental Education Program	3	Fall in odd years
FOR 3202 - Society and Natural Resources	3	Spring
WIS 4551 Diverse Perspectives in Conservation	3	Spring
FOR 4664 - Sustainable Ecotourism Development	3	Fall
WIS 4523 - Human Dimension of Natural Resource	3	Fall
Conservation		

Economic/Natural Resource Policy Common Requirement (choose 1):

Course Number and Title	Credits	Semester
ECP 3302 - Environmental Economics & Resource Policy	4	Fall
FNR 4660 Natural Resource Policy & Economics	3	Fall

Conservation Common Requirement (choose 1):

Course Number and Title	Credits	Semester
WIS 4554 - Conservation Biology	3	Fall
WIS 4203C - Landscape Ecology & Conservation	3	Spring

Approved Ecology Focus	Area course option	s: Special Topics course	s as approved by l	Dr. Romagosa
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Approved Ecology Focus Area course options: Special Topics courses as ap	proved by Dr.	Romagosa
Course Number and Title	Credits	Semester/Notes
ALS 4161 Exotic Species and Biological Invasions	3	Fall; BSC 2010/201L; BSC 2011/2011L
ALS 4162 Consequences of Biological Invasions	3	Spring; BSC 2011/2011L
ANT 3555 The Primates	3	Fall
ANT 4552 Primate Behavior	3	Spring
ANT 4930 Primate Conservation	3	Spring
ANT 4930 Primate Ecology	3	Spring
BOT 4621 Plant Geography	2	TBA; BSC 2010/2010L; BSC 2011/2011L
BSC 2862 Global Change Ecology and Sustainability	3	Fall & Spring
BSC 3307C Climate Change Biology	4	Fall & Spring: BSC 2011/2011L pre-reg
BSC 4821C Evolutionary Biogeography	3	Fall
ENY 3563 Introduction to Tropical Entomology	3	Summer A: ENY 3005/3005L pre-reg
ENY 4161 Insect Classification	3	Fall, Spring & Summer C: ENY 3005/3005L pre-reg
ENY 4208 Ecology and Conservation of Pollinators	4	Fall
ENY 4201/42011 Insect Ecology & Lab	3	Fall: ENY 3005L or BSC 2005L or equivalent
ENY 4202 Ecology of Vector Borne Disease	2	Fall: BSC 2010
ENV 4905 Problems in Entomology		
GLY 6075 Global Climate Change	3	Fall: Graduate level graduate fees apply instructor
	5	nermission needed
FAS 4175 Biology and Ecology of Algae	3	Spring: BSC 2011/2011
FAS 4270 Marine Ecological Processes	3	Fall: BSC 2010/2010L pre-reg
FAS 4932 Field Ecology of Aquatic Organisms	3	Summer A: Only 7 seats available for course
FAS 4932 Invasion Ecology of Aquatic Organisms	3	Spring in Even years
EAS 4202C Biology of Fishes	3	Fall: BSC 2011/2011L pro rog
FAS 4202C biology of Fishery Science	2	Spring
FAS 4305C Infoduction to Fishery Science	2	Spring Fall in even vegre: Graduate level, graduate foor
ras 6557C rish Population Dynamics	5	apply instructor permission peeded
DCP 2601C Diant Ecology	2	Spring: Introductory college biology or betany
PCB 3001C Plaint Ecology	3	Spring, introductory conege biology of botany
PCB 4043C General Ecology	4	Fall & Summer C; BSC 2011/2011L pre-req
PCB 4674 Evolution	4	Fall & Spring; BSC 2011/2011L; one semester of
CW/C 1100 Farth System Analysis	2	
SWS 4180 Earth System Analysis	3	Fall; MAC 2233 OF PHY 2045 pre-req
		TBA; Only one Vivie can be used as a Focus course
VIVE 4012 Aqualic Animal Conservation	2	TBA; Only one vivie can be used as a Focus course
WIS 3410 The Ecology of Climate Change	3	Spring
WIS 4570C Wildlife Behavior and Conservation	3	Fall; BSC 2010 pre-req
WIS 4547C Avian Field Techniques	2	Spring
WIS 4551 Diverse Perspectives in Conservation	3	Spring
WIS 4905 Individual Problems	Varying	Fall, Spring, Summer C
WIS 4941 Internship in Wildlife Ecology and Conservation	Varying	Fall, Spring, Summer C
WIS 4934 Tropical Ecology and Climate Change	3	Fall in Quito and Galapagos
WIS 4905 New Zealand Flora and Fauna	3	Summer B
WIS 4905 African Savannah Wildlife Ecology		Summer A
WIS 4941 Internship in Wildlife Ecology and Conservation	Varying	As approved by Dr. Steve Johnson
WIS 4934 Zoo Management and Conservation	3	Fall
WIS 4934 Conservation of Amphibians and Reptiles	3	Fall in even years
WIS 4934 Invasion/Ecology of Amphibians and Reptiles	3	Fall in odd years
WIS 4934 Wildlife Tracks and Signs	3	Fall
WIS 4934 Disease and Wildlife	3	Fall
ZOO 3603C Evolutionary Developmental Biology	4	Fall; BSC 2011/2011L pre-req
ZOO 4050 Animal Behavior	3	Spring
ZOO 4307C Vertebrate Biodiversity	4	Fall; BSC 2011 and BSC 2011L OR ISC 2410L
ZOO 4403C Marine Biology	3	Fall & Summer C; BSC 2011/2011L pre-req
ZOO 4405 Sea Turtle Biology and Conservation	3	Spring
ZOO 4926 Special Topics in Zoology		
ZOO 4926 Field Ecology in Africa – UF Kenya	3	Summer A
Zoo 4926 Undergraduate Research in Zoology – UF Kenya	3	Summer A
PCB 4460 Marine Ecology	3	Spring in odd years; BSC 2011/2011L pre-req
ZOO 6406 Biology of Sea Turtles		Instructor permission: graduate fees apply
ZOO 6468C Ichthyology/ Now offered as UG course too PCB 4460	3	Instructor permission: graduate fees apply
VME 4013 Aquatic Wildlife Health Issues		

Approved Management Focus Area course options:

Note: Grouped management courses into categories by content. You may mix and match from all categories to develop your 12 credit Focus Plan.

Course Number and Title	Credits	Semester/Notes
FAS 4305C Introduction to Fishery Science	3	Spring
FAS 4932 Science Diver	2	Fall
Law, Economics and Policy		
AEB 2451 Economics of Resource Use	3	Fall
AEB 3450 Introduction to National Resource and Environmental	3	Fall: AEB 3103 or ECO 2023 pre-reg: Can't receive
Economics		credit for both AEB 3450 and ECP 3302
ECP 3302 Environmental Economics and Resource Policy	4	Fall; ECO 2023; Can't receive credit for both ECP
,		3302 and AEB 3450
FNR 4660 Natural Resource Policy and Economics	3	Fall
FOR 3200C Foundations of Natural Resource and Conservation	3	Summer B; 3FY or instructor consent
FOR 4020 Seminar in Contemporary Issues in Forest Resources and		Last taught in Fall 20; 4FY or instructor consent
Conservation		
FOR 4060 Global Forests	3	Spring; 4FY pre-req
FOR 4090C Urban Forestry	3	Spring; 4FY pre-req
FOR 4621 Forest Economics and Mgt	4	Fall; FOR 3162C and ECO 2023 pre-reqs
Planning and Design		
EES 4050 Environmental Planning and Design	3	Fall
FNR 4623C Integrated Natural Resource Mgt	3	Spring
FOR 4110 Ecology and Restoration of Longleaf Pines Ecosystems	3	Spring; General Ecology course
FOR 4624C Forest Health Management	3	Spring; 4F pre-req
SWS 4244 Wetlands	3	Fall
SWS 4207 Sustainable Agricultural and Urban Land Mgt	3	Fall
WIS 4203C Landscape Ecology and Conservation		Spring; STA 2023 & general ecology course &
		general GIS course
Implementation Procedures		
ALS 4161 Exotic Species and Biosecurity Issues	3	Fall; BSC 2010/201L; BSC 2011/2011L
FNR 3131C Dendrology/Forest Plants	3	Fall
FNR 3410C Natural Resource Sampling	3	Fall; STA 2023 pre-req
FNR 4343C Forest Water Resources	3	Spring; SWS 3022/3022L pre-req
FNR 4345 Models for Water Resources	1	TBA; SWS 3022/3022L
FOR 3162C Silviculture	4	Spring; FOR 3153C pre-req
FOR 3214 Fire Ecology and Mgt	2	Spring; FOR 3153C, PCB 3034C or PCB 4042C pre-
		reqs
FOR 3214L Fire Ecology and Mgt Lab	1	Spring; FOR 3214
FOR 3342C Tree Biology	3	Spring; BOT 2010C or BSC 2011 pre-reqs
FOR 3430C Forest Mensuration	3	Spring; FNR 3410C pre-req
FOR 3434C Forest Resources Information Systems	3	Summer B
GIS 3043 Foundations of Geographical Information Systems	3	Fall, Spring and Summer A
GIS 3072C Geographic Information Systems	3	Fall
GIS 4021 Air Photo Interpretation	3	Fall
Any SUR prefix 3000-level or higher		ТВО
URP 4273 Survey of Planning Information Systems	3	Fall
WIS courses with appropriate Management Focus		
WIS 4427C Wildlife Habitat Management	3	Mandatory course
		SU A and Fall; WIS 3401 Pre-req
WIS 4440C Wetland Management	3	TBA; BSC 2010/2010L and BXC 2011/2011L pre-req
WIS 4551 Diverse Perspectives in Conservation	3	Spring
WIS 4570C Wildlife Behavior and Conservation	3	Fall; BSC 2010 pre-req
WIS 4934 Large Mammal Ecology and Mgt	3	Spring in even years
WIS 4934 Everglades Natural History, Mgt, and Restoration	3	Spring
WIS 4905 Biodiversity Conservation & Mgt in New Zealand	3	Summer B
WIS 4905 Conservation, Culture, and Mgt in Swaziland	3	Summer A
WIS 4905 Individual Problems	Varying	Every semester by contract only
WIS 4941 Internship in Wildlife Ecology and Conservation	Varying	Every semester by contract only

Approved Human Dimension Focus Area course options: Note: Grouped Human Dimension courses into categories by content. You may mix and match from all categories to develop your 12 credit Focus Plan.

Policy, Economics and Ethics			
Course Number and Title	Credits	Semester/Notes	
AEB 2451 Economics of Resource Use	3	Fall	
AEB 3450 Intro to Natural Resource and Environmental Economics	3	Fall; AEB 3103 or ECO 2023	
AEB 4126 Agricultural and Natural Resource Ethics	3	Fall & Spring	
AEB 4283 International Development Policy	3	Fall & Spring	
ECP 3302 Environmental Economics and Resource Policy	3	Fall	
FNR 4660C Natural Resource Policy and Administration	3	Fall	
FOR 3202 Society and Natural Resources	3	Spring	
,		Note: Not if used for HD Common Requirement	
GEA 3600 Geography of Africa	3	Spring	
INR 4350 International Environmental Relations	3	TBA	
PHM 3032 Ethics and Ecology	3	ТВА	
PUP 3203 Environmental Law and Policy	3	ТВА	
PUP 3204 Politics and Ecology	3	ТВА	
PUP 4008 Analyzing Public Policy	3	ТВА	
POT 3503 Environmental Ethics and Policy	3	ТВА	
WIS 4523 Human Dimensions of Natural Resource Conservation	3	Fall	
		Note: Not if used for HD Common Requirement	
WIS 4551 Diverse Perspectives in Conservation	3	Spring	
		Note: Not if used for HD Common Requirement	
Environmental Education and Communication			
AEC 3070C Digital Media Products in Agriculture and Natural Resources	3	Fall & Spring	
AEC 3073 Intercultural Communication	3	Fall	
AEC 3414 Leadership Development in Agriculture and Natural Resources	3	Fall & Spring	
AEC 4035 Communication Practices for Agricultural and Life Sciences	3	Fall & Spring	
AEC 4036 Advanced Agricultural Communication Production	3	Fall & Spring	
FOR 4070C Environmental Education Program Development	3	Fall in odd years	
SPC 3602 Advanced Public Speaking	3	Spring	
Environmental Planning and Management			
EES 4050 Environmental Planning and Design	3	Fall	
FNR 4623C Integrative Natural Resource Management	3	Spring	
FOR 4664 Sustainable Ecotourism Development	3	Fall	
GEO 4554 Regional Development	3	Spring	
LEI 3250 Intro to Outdoor Recreation and Parks	3	Fall	
LEI 3546 Park Management	3	ТВА	
FOR 4664 Sustainable Ecotourism	3	Fall	
		Note: Not if used for HD Common Requirement	
URP 4000 Preview of Urban and Regional Planning	3	Fall & Spring	
WIS and Other Courses with Appropriate Human Dimensions Focus			
WIS 4934 Zoo Management and Conservation	3	Fall	
WIS 4905 Individual Problems	3		
WIS 4905 UF in Quito and the Galapagos Islands	3	Fall Trip – coursework as approved by Dr. Steve Johnson. WEC Undergraduate Coordinator	
WIS 4911 Undergraduate Research/WEC	Varving	S/U Grade	
WIS 4915 Honors Thesis Research/WEC	Varving	S/U Grade	
WIS 4941 Practical Work Experience in Wildlife Ecology and Conservation	Varving	Letter Grade	
ZOO 4926 Introductions to Collections and Research in Natural History	4	Spring	
Museums			

Approved Quantitative Sciences Focus Area course options:

Note: Grouped Quantitative Sciences courses into categories by content. You may mix and match from all categories to develop your 12 credit Focus Plan.

Mathematics, Modeling and Statistics		
Course Number and Title	Credits	Semester/Notes
FAS 4XXX Applied Fisheries Statistics	el cuito	
FOR 4934 Introduction to Programming with R	2	Summer B
MAC 2313 Analytic Geometry and Calculus 3	4	Fall & Spring
MAD 4401 Introduction to Numerical Analysis	3	Fall & Spring
MAP 2302 Elementary Differential Equations	3	Fall & Spring
MAP 4101 Probability Theory and Stochastic Processes 1	3	ТВА
MAP 4102 Probability Theory and Stochastic Processes 2	3	Spring
MAS 3114 Computational Linear Algebra	3	Fall & Spring
MAS 4105 Linear Algebra 1	4	Fall & Spring
STA 3100 Programming with Data in R	3	Fall, Spring & Summer A
STA 4210 Regression Analysis	3	Fall & Spring
STA 4211 Design of Experiments	3	Fall & Spring
STA 4222 Sample Survey Design	3	TBA
STA 4321 Introduction to Probability	3	Fall & Spring
STA 4504 Categorical Data Analysis	3	Fall & Spring
Computer Programming and Networks	•	
CAP 4800 Systems Simulation	3	ТВА
CIS 3020 Intro to CIS	3	ТВА
COP 3530 Data Structures and Algorithm	3	Fall & Spring; (COP 3504 or COP 3503) and COT 3100
		and (MAC 2234 or MAC 2312 or MAC 2512 or MAC
		3473), all with a minimum grade of C.
COP 4331 Object-oriented Programming	3	ТВА
COT 3100 Applications of Discrete Structures	3	Fall, Spring & Summer C (MAC 2311 or MAC 3472)
		and (COP 3502 or equivalent), all with a minimum
		grade of C; Coreq: COP 3504 or COP 3503.
COT 4501 Numerical Analysis – A Computational Approach	3	Spring; (COP 3504 or COP 3503) and MAS 3114.
GIS and Remote Sensing		
GEO 3162C Intro to Quantitative Analysis for Geographers	3	Fall & Spring: STA 2023 or instructor permission
GEO 4167C Intermediate Quantitative Analysis for Geographers	3	Fall
GIS 3043 Foundations of Geographical Information Systems	3	Fall. Spring & Summer A
GIS 3072C Geographic Information Systems	3	Fall
GIS 4021C Aerial Photo Interpretation	3	Fall
SUR 3331 & SUR 3331L Photogrammetry & Lab	3	Spring
SUR 4380 Remote Sensing	3	Spring
URP 4273 Survey of Planning and Information Systems	3	Fall
WIS & Other Courses with Appropriate Quantitative Focus		
WIS 4934 Topics in Wildlife Ecology and Conservation (Such as Biometry)		
WIS 4905 Individual Problems	Varying	
WIS 4941 Practical Work Experience	Varying	
SWS 4180 Earth System Analysis	3	Fall; MAC 2233 or PHY 2048.

Approved for The Wildlife Society (TWS) Certification course options:

Four approved focus courses (≥12 credits) must be successfully completed within the selected Focus Area. Courses used to fulfill WEC Common Requirements and other requirements may not be counted again as Focus Courses. All students must file a plan of study for Focus Area courses with WEC Student Services (102 Newins-Ziegler Hall) before completing 60 credit hours in the major. The plan must be approved by both the student's faculty advisor and the Undergraduate Program Coordinator, Dr. Christina Romagosa. Course substitutions to the plan must also be approved by the Undergraduate Program Coordinator.

You may select any courses necessary to fulfill the requirements for Certification by The Wildlife Society as an <u>AWB-Certification_January-</u><u>2023.pdf (wildlife.org)</u> Associate Wildlife Biologist (The core WEC curriculum satisfies many of the requirements. However, choices made for Common Requirements may require additional courses in a particular area, and testing out of courses with AP, IB, etc. type courses may also require that these courses be taken again (as TWS does not accept dual enrollment high school coursework even if UF gave you credit). * Certification is not required to obtain your degree/graduate. A degree is not required for certification, only the appropriate combination of courses. Courses need not be taken at UF for certification, but UF requires most courses be taken at UF to fulfill the degree (particularly the final 30 credits of your degree). Below are the course requirements for certification with suggestions. The link above is to the actual TWS Certification Application. Credits from individual course may be split among various sections/requirements if they meet the criteria.

*Note: In Spring 2018, TWS indicated they accept AP placement for coursework IF the AP exam score is 4 or higher. For example, if you received an exam score of 4 on the AP exam for STA 2023 Intro to Stats 1, TWS will accept this, and you do not need to retake the course at UF for the purpose of certification.

We strongly recommend that you read and pay close attention to the course requirements on TWS Associate Wildlife Biologist application (see above URL) form before choosing this focus area. There are several specific course requirements that must be adhered to fulfill certification requirements. Decisions on course substitutions are made by a TWS board, and NOT UF's Wildlife Ecology and Conservation Department. For questions about substitutions and other inquiries please contact Ms. Jennifer Murphy at <u>certification@wildlife.org or by phone 301-897-9770, ext.</u> <u>307.</u>

Meet all requirements listed in each of the below tables to qualify

Wildlife Management and Biology: Minimum 12 Credit Hours Needed

1) one course must focus on wildlife management, and 2) one course must be in either herpetology, mammalogy or ornithology. The herpetology/mammalogy/ornithology may not be substituted with work experience **Course Number and Title** Credits Semester/Notes WIS 3401 Wildlife Ecology and Management Fall and Spring 3 WIS 4427C Wildlife Habitat Management 3 Fall and Summer A WIS 3402 Wildlife of Florida Lecture 3 Spring 3 WIS 4424 Large Mammal Ecology Spring even years ZOO 4427C Avian Biology 4 Spring ZOO 4962C Herpetology Spring 3 WIS 4570C Wildlife Behavior and Conservation 3 Fall

Ecology: Minimum 3 Credit Hours Needed		
Course Number and Title – choose 1	Credits	Semester/Notes
FOR 3153C Forest Ecology	3	Fall and Spring
PCB 3601C Plant Ecology	3	Spring
PCB 4043C General Ecology	4	Fall and Spring
WIS 3404 Natural Resource Ecology	3	Fall

The Wildlife Society (TWS) Certification Continued:

Zoology: Minimum 9 Credit Hours		
Course Number and Title – choose 3	Credits	Semester/Notes
BSC 2010/2010L Integrated Principles of Biology 1 & Lab	4	Fall, Spring, & Summer C
ENY3005/3005L Principles of Entomology & Lab	3	Fall, Spring, & Summer C
ENY 4210 Insects and Wildlife	3	Fall
		Prerequisite: ENY 3005L or BSC 2005L or equivalent
ZOO 4205C Invertebrate Biodiversity	4	Spring &Summer C
		Prerequisite: BSC 2011 and BSC 2011L with
		minimum grades of C
WIS 3553 Conservation Genetics	4	Spring
ZOO 4307 Vertebrate Biodiversity	4	Fall
ZOO 4962C Herpetology	3	Spring
ZOO 4403 Marine Biology	4	Fall & Summer C

Botany: Minimum 9 Credit Hours		
Course Number and Title – choose 3	Credits	Semester/Notes
BSC 2011/2011L Integrated Principles of Biology 2 & Lab	4	Fall, Spring & Summer C
BOT 2011C Plant Diversity	4	Spring
BOT 2710C Practical Plant Taxonomy	3	ТВА
BOT 3151C Local Flora of North Florida	3	Fall & Spring
FNR 3131C - Dendrology/Forest Plants	3	Fall
ORH 3513C - Environmental Plant Identification and Use	3	Fall & Summer C Only
PCB 3601C Plant Ecology	3	Spring: If used to fulfill the Ecology requirement above, it CANNOT also be used here.

Physical Sciences: Minimum 9 Credit Hours		
Course Number and Title – choose 3	Credits	Semester/Notes
SWS 3022/L Introduction to Soils in the Environment and Lab	4	Fall & Spring; Lab also offered in Summer B
CHM 2045/2045L General Chemistry 1	4	Fall, Spring & Summer C
CHM 1025 Introduction to Chemistry	2	Fall, Spring, & Summer B
GLY 1150L Florida Geology Lab.	1	Fall, Spring, & Summer C
		Prerequisite: ENY 3005L or BSC 2005L or equivalent
Section Notes:		

Must have two disciplines represented through the courses you select.

Basic Statistics: Minimum 3 Credit Hours		
Course Number and Title	Credits	Semester/Notes
STA 2023 Introduction to Statistics 1	3	Fall, Spring & Summers A and B

Quantitative Sciences: Minimum 6 Credit Hours		
Course Number and Title	Credits	Semester/Notes
MAC 2311 Analytic Geometry and Calculus 1	4	Fall, Spring & Summers B and C
WIS 4601C Quantitative Wildlife Ecology	3	Fall, Spring
		Prerequisite: STA 2023 and WIS 3401.
Acceptable courses: Calculus, biometry, college algebra, advanced algebra,		
trigonometry, systems analysis, mathematical modelling, sampling,		
computer science, GIS courses if relevant to wildlife habitat.		

Humanities and Social Sciences: Minimum 9 Credit Hours

Section Notes:

Courses such as economics, sociology, physiology, political science, government, history, literature, or foreign language.

Usually, completing your General Education and CALS required courses fulfills all nine of these credits. You should check, particularly if you tested out of some of these.

Communications: Minimum 12 Credit Hours		
Course Number and Title	Credits	Semester/Notes
AEC 3030C Effective Oral Communication	3	Every semester
OR		CALS Requirement
SPC 2608 Introduction to Public Speaking		
AEC 3033C Research and Business Writing in Agricultural and Life Sciences	3	Every Semester
OR		CALS Requirement
ENC 2210 Technical Writing		Prerequisite: Junior or senior standing.
OR		Attributes: Satisfies 6000 Words of Writing
ENC 3254 Professional Writing		Requirement
Section Notes:		

6 credit hours are met through CALS requirements. The other 6 credit hours are met with your general education requirements.

Policy, Administration, and Law: Minimum 6 Credit Hours		
Course Number and Title	Credits	Semester/Notes
FNR 4660C Natural Resource Policy & Administration	3	Fall
FOR 3202 Society and Natural Resources	3	Spring
FOR 4664 Sustainable Ecotourism and Development	3	Fall
WIS 4523 Human Dimensions of Natural Resource Conservation	3	Fall
ECP 3302 Environmental Economics and Resource Policy	3	Fall
EES 4050 Environmental Planning and Design	3	Fall
WIS 4551 Diverse Perspectives in Conservation	3	Spring
AEB 4126 Agricultural and Natural Resource Ethics	3	Fall & Spring; May work here (not reviewed by TWS yet)

Section Notes:

Courses you are using to fulfill your Human Dimension Common Requirement will NOT work here. WIS 4934 Conservation Law Enforcement will NOT work here.

Approved Cooperative Education Focus Area course options:

Completing this focus area will include enrolling in 12 credits of WIS 4941 Internship in Wildlife Ecology and Conservation during one semester and working for a wildlife/natural resource agency or NGO fulltime (>40 hrs./week) for 16 weeks during that semester. The WEC contract that describes the work to be completed and contact information for the student's supervisor will be completed and approved by the WEC Undergraduate Coordinator before enrolling in the course. This WEC contract form is found on http://wec.ufl.edu/undergrad/forms.php.

IMPORTANT: Your internship must be approved, and you must be registered for WIS 4941 credits before you can count this experiential learning towards your WEC Focus requirement. Credit for wildlife internship experience cannot be earned retroactively or after the fact. Be sure you are registered in WIS 4941 before beginning your internship.

The Department of Wildlife Ecology and Conservation does not provide internships but can assist students in finding appropriate opportunities. It is the student's responsibility to locate and secure internships, which then must be approved by the WEC Undergraduate Coordinator (Dr. Steve Johnson).

Approved Urban and Regional Planning to fulfill Dual Degree Requirements:

Recently WEC Faculty met with the Department of Urban and Regional Planning to discuss the possibility of WEC undergraduates pursuing a combined degree (Baccalaureate of Science in Wildlife Ecology and Conservation and a Master of Arts in Urban and Regional Planning in URP) in a five-year program. Students who satisfy the requirements for the M.A. in URP will further be eligible to pursue various certifications as professional planners. The URP M.A. requires a total of 52 graduate credits and to satisfy this requirement, URP requires that Undergraduates complete 21 of these graduate credits during their undergraduate curriculum.

Students selecting the Urban and Regional Planning Focus Area are required to complete 21 credit hours of "Focus" courses and these could cover the 21 graduate credits (6000 level or above) required by URP in the undergraduate portion of this combined degree program. The Department of Urban and Regional Planning assured us that undergraduates can master these courses and certainly will not be at any disadvantage compared to URP graduate students in the program. Upon graduation from the undergraduate portion of this program, students will have to satisfy 31 additional graduate credits in URP in the next year, with 6 of these credits being designated for the thesis.

Students must be advised by both a WEC faculty member and an Urban and Regional Planning faculty member.