

## SECTION IV: DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE

2020–2021 WILDLIFE, FISHERIES AND AQUACULTURE MAJOR			
<b>CONB</b> Conservation Biology Concentration (Sample Schedule) Total Hours = 124 (effective Summer 2019)			
FRESHMAN YEAR			
Fall Semester		Spring Semester	
BIO 1134	Biology I	BIO 1144	Biology II
CH 1213	Chemistry I (C in MA 1313 or ACT math subscore 24)	CH 1223	Chemistry II (C or better in CH 1213)
CH 1211	Investigations in Chemistry I	CH 1221	Investigations in Chemistry II
EN 1103	English Comp. I (ACT subscore 17)	EN 1113	English Composition II (EN 1103)
<b>WFA 1102</b>	<b>Wildlife and Fisheries Profession</b> (FR, SO, or instructor consent) (FL)	MA 1613	Calculus for Business and Life Sciences
			Oral Communication Elective (3)
	Humanities Elective (3)		
SOPHOMORE YEAR			
Fall Semester		Spring Semester	
<b>WFA 3133</b>	<b>App. Aqu. &amp; Terr. Eco.</b> (BIO 1134 & 1144)	<b>WFA 4243</b>	<b>Wildlife &amp; Fisheries Techniques</b> (SO)
BIO 3103	Genetics (MA 1313, BIO 1134)		Computer Application Elective (3)
	Statistics Elective (3)	CH 2503	Elementary Organic Chemistry (CH1213)*
	Plant Elective (3)		Humanities Elective (3)
	WFA Social Science Elective (3)		Fine Arts Elective (3)
Summer Semester			
**Students are encouraged to obtain Wildlife, Fisheries or Conservation Biology experience during the summer. Internship credit for professional experience may apply toward professional elective hours.			
JUNIOR YEAR			
Fall Semester		Spring Semester	
WFA 4123	Wildlife & Fish Biometrics (Stats, C or better in MA 1613)(FL)	<b>WFA 4153</b>	<b>Principles Wildlife Cons. &amp; Mgt.</b> (WFA 3133)
<b>WFA 4223</b>	<b>Wildlife Plant ID</b> (BIO 1134 & BIO 1144 & WFA 3133) (FL)	WFA 4623	Problem Solving in Conservation Biology (WFA 4623) (SP)
WFA 4623	Conservation Biology (FL)	BIO 4113	Evolution (MA 1313, BIO 1134, BIO 1144, BIO 3103)
	Natural Resources Policy Elective (3)		Social Science Elective (3)
	Aquatics Elective (3)		Writing Elective (3)
Summer Semester			
*Students are encouraged to obtain Wildlife, Fisheries or Conservation Biology experience during the summer. Internship credit for professional experience may apply toward professional elective hours.			
SENIOR YEAR			
Fall Semester		Spring Semester	
<b>WFA 4353</b>	<b>Fish and Wild. Policy &amp; Law</b> (SR)(FL)	WFA 4253	Applications of GIS in Wildlife Sciences (SR) (SP)
WFA 4881	Current Topics in Conservation Biology (WFA 3133, WFA 4623) (FL)	<b>WFA 4473</b>	<b>WL &amp; Fish Practices</b> (SR, WFA 3133, WFA 4153)
	Organismal Elective (3)		Organismal Elective (3)
	Professional Elective (3)		Professional Elective (3)
	Professional Elective (3)		Professional Elective (3)
	Professional Elective (3)		Professional Elective (3)

Classes in **BOLD** require a C or better. FL= offered only in fall semester; SP= offered only in spring semester

SO=Sophomore standing, JR=Junior standing, SR=Senior standing

\*Substitution available

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CONB

### 2020–2021 APPROVED ELECTIVE LIST Conservation Biology Concentration

FINE ARTS ELECTIVES (MSU CORE)		HUMANITIES ELECTIVES (MSU CORE)	
ARC 1013	Architectural Appreciation	AAS 1063	Intro to African American Studies
ART 1013	History of Art I	ARC 2313	History of Architecture I
ART 1023	History of Art II	ARC 3313	History of Architecture II (ARC 2313)
ART 1113	Art Appreciation	EN 2203	Intro to Lit (EN 1103, EN 1113)
CO 1503	Intro to the Theatre	EN 2213	English Lit Before 1800 (EN 1103, EN 1113)
HON 3173	Honors Seminar in Fine Arts (SOPH standing)	EN 2223	English Lit After 1800 (EN 1103, EN 1113)
ID 3643	History of Interiors I	EN 2243	American Lit Before 1865 (EN 1103, EN 1113)
LA 1803	Landscape Architecture Appreciation	EN2253	American Lit After 1865 (EN 1103, EN 1113)
MU 1103	African American Music	EN 2273	World Lit Before 1600 (EN 1103, EN 1113)
MU 1113	His & Appr of Music	EN 2283	World Lit After 1600(EN 1103, EN 1113)
MU 1123	American Music App	FL 1113-2143	Foreign Language
MU 1133	History of Rock and Roll	HI 1063	Early US History
PE 1323	His & Appr of Dance	HI 1073	Modern US History
PSS 2343	Floral Design	HI 1163	World History Before 1500
TKI 2413	His & Appr of the Artcrafts	HI 1173	World History After 1500
STATISTICS ELECTIVES (MSU CORE)		HI 1213	Early Western World
ST 2113	Intro to Stats (ACT Math subscore 24 or C in MA 1313)	HI 1223	Modern Western World
ST 3123	Intro to Stat. Inf. (ACT Math subscore 24 or C in MA 1313)	HI 1313	East Asian Civ to 1300
WRITING ELECTIVES		NATURAL RESOURCE POLICY ELECTIVES	
AELC 3203	Prof Writing ANR Hum Sci (JR) (EN 1103, EN 1113)	WFA 4363	W&F Admin and Comm (JR)
BCH 4503	Sci Comm Skills (JR)	WFA 4463	Human Dim of F&W Mgt (JR)
CO 3343	Writing for the Media (C in EN 1113)	FO 4343	Forest Admin & Org (JR)
EDF 3413	Writing for Thinking (JR)(EN 1103, EN 1113)	FO 4353	Natural Resource Law (JR)
EN 3313	Writing for the Workplace (EN 1113)	FO 4413	Natural Resource Policy (SR)
MGT 3213	Organizational Communication (EN 1113)	PS 4743	Environmental Policy (PS 1113, PS 2703)
PLANT ELECTIVES		ORAL COMMUNICATION ELECTIVES	
BIO 2113	Plant Biology (BIO 1134)	AELC 3333	Presentations in Ag & Life Sci
BIO 2213	Survey of Plant Kingdom	CO 1003	Fund of Public Speaking
BIO 4203	Taxonomy of Spermatophytes (BIO 2113, BIO 2213)	CO 1013	Intro to Communication
FO 2113	Dendrology		
COMPUTER APPLICATION ELECTIVES			
AEC 1223	Computer Applications for Ag & Life Sciences		
FO 3103	Computer Applications in Forest Resources		
GR 2313	Maps & Remote Sensing		
GR 3303	Survey of Geospatial Tech (GR 2313)		
TKT 1273	Computer Applications		
TKB 2123	Intro to Database Mgt (TKT 1273 or BIS 1012)		

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**2020–2021 APPROVED ELECTIVE LIST**  
Conservation Biology Concentration

WFA SOCIAL SCIENCE ELECTIVES		CONSERVATION BIOLOGY PROFESSIONAL ELECTIVES	
AEC 2713	Intro to Food & Resource Econ	WFA 4113	Animal Behavior
AN 1143	Cultural Anthropology	WFA 4263	Wildlife Diseases
EC 2113	Prin of Macroeconomics (SO)	WFA 4273	Management Human-Wildlife Interactions
EC 2123	Prin of Microeconomics (SO)	WFA 4373	Conservation in Ag Landscapes
EC 4043	Survey of Economics (SR)	WFA 4383	Wetlands Ecology
GR 1123	Introduction to World Geography	WFA 4463	Human Dimensions WF Management
GR 2013	Human Geography	WFA 4483	Seminar in Tropical Ecology
PS 1113	American Government	WFA 4484	Upland Avian Ecology and Management
PS 1313	Intro to International Relations	AN/SO 4173	Environment and Society
SO 1003	Intro to Sociology	BCH 4013	Principles of Biochemistry
SOCIAL SCIENCE ELECTIVES (MSU CORE)		BIO 2503	Environmental Quality
ADS 1013	Animal Agriculture & Society: Food for Thought	BIO 3113	Marine Biology
AEC 2713	Introduction to Food and Resource Economics	BIO 3303	Parasitology (BIO1134)
AN 1103	Introduction to Anthropology	BIO 4143	Population Genetics (BIO 2113)
AN 1143	Introduction to Cultural Anthropology	BIO 4233	Living with Global Change
AN 1543	Introduction to Archaeology	BIO 4603	Ethnobotany
AN 2403	Introduction to the Study of Language	GG 4523	Coastal Environments (GG 1113 or consent)
CO 1223	Introduction to Communication Theory	NREC 3213	Environmental Measurements (ST 2113)
CO 1403	Introduction to the Mass Media	NREC 4423	Environmental Assessments
EC 1033	Economics of Social Issues	PS 4743	Environmental Policy (PS 1013)
EC 2113	Prin of Macroeconomics (SO)	CONSERVATION BIOLOGY ORGANISMAL ELECTIVES	
EC 2123	Prin of Microeconomics (SO)	WFA 4423	Herpetology (WFA 3133)
EN 2403	Introduction to the Study of Language	WFA 4433	Mammalogy (WFA 3133)
EPY 2513	Human Growth and Development	WFA 4443	Ornithology (WFA 3133)
EPY 3503	Principles of Educational Psychology	WFA 4453	Ichthyology (WFA 3133)
EPY 3543	Psychology of Adolescence	BIO 2513	Animal Diversity (BIO 1134, BIO 1144)
FO 4113	Forest Resource Economics (AEC 2713)	BIO 3524	Biology of Vertebrates
GR 1123	Introduction to World Geography	BIO 4203	Taxonomy of Spermatophytes (BIO 2113, BIO 2213)
GR 2013	Human Geography	BIO 4213	Plant Ecology
HDFS 1813	Development through the Lifespan	EPP 4154	Entomology
HON 1173	The West and the Wider World	AQUATICS ELECTIVES	
HON 3143	Hon Seminar in Soc Sci (SO)(EN 1103, EN 1113)	WFA 4133	Fisheries Science (ST 3123)
PO 1013	Animal Agriculture & Society: Food for Thought	WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
PS 1113	American Government	WFA 4183	Prin & Prac of Aquaculture (BIO 1134, BIO 1144)
PS 1313	Introduction to International Relations	WFA 4233	Limnology (WFA 3133)
PS 1513	Comparative Government	WFA 4313	Fisheries Mgt (WFA 3133)
PSY 1013	General Psychology	WFA 4383	Wetlands Ecology (JR)(WFA 3133)
PSY 3073	Psychology of Interpersonal Relations (PSY 1013)	WFA 4453	Ichthyology (WFA 3133)
SO 1003	Introduction to Sociology	CVM 4134	Aquatic Animal Health (any microbiology, any physiology)
SO 1103	Contemporary Social Problems	GG 3613	Water Resources (GG 1113)
SO 1203	Sociology of Families	GG 4523	Coastal Environments (GG 4523)
		BIO 4224	Aquatic Biology (BIO 2113, WFA 3133)

## SECTION IV: DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE

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APPROVED SUBSTITUTIONS LIST FOR CONSERVATION BIOLOGY CONCENTRATION	
Required Courses	Approved Substitution
CH 2503 Elementary Organic Chemistry	CH 4513 Organic Chemistry (C in CH1223)
MA 1613 Calc. Bus./Life Science	MA 1713 Calculus I
WFA 4253 Appl of GIS in WF	FO 4313 Spatial Tech in Nat. Res. Mgt. (FO 3015 or GR 2313) FO 4473 GIS Nat Res. Mgt. GR 2313 Maps and Remote Sensing GR 3303 Survey of Geospatial Tech (GR 2313) GR 4303 Principles of GIS