

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

<b>2020–2021 WILDLIFE, FISHERIES AND AQUACULTURE MAJOR</b> <b>Human-Wildlife Interactions Concentration</b> (Sample Schedule) Total Hours = 124 (effective Fall 2019)			
FRESHMAN YEAR			
Fall Semester		Spring Semester	
BIO 1134	Biology I	BIO 1144	Biology II
CH 1043/1213	Survey of Chemistry I or Chemistry I (C in MA 1313 or ACT math subscore 24)	CH 1053/1223*	Survey of Chemistry II (CH 1043) or Chemistry II (C or better in CH 1213)
	Humanities Elective (3)	EN 1113	English Composition II (EN 1103)
EN 1103	English Comp. I (ACT subscore 17)	MA 1613	Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
<b>WFA 1102</b>	<b>Wildlife and Fisheries Profession</b> (FR, SO, or instructor consent)(FL)		Oral Communication Elective (3)
SOPHOMORE YEAR			
Fall Semester		Spring Semester	
<b>WFA 3133</b>	<b>App. Aq. &amp; Terr. Ecol.</b> (BIO 1134 & 1144)	<b>WFA 4243</b>	<b>Wildlife Techniques</b> (SO)
PSS 3303	Soils (CH 1043)		Life Science Elective (3)
PSS 3301	Soils Lab (CH 1043)		Fine Arts Elective (3)
	Plant Elective (3)		Humanities Elective (3)
	Statistics Elective (3)		Social Science Elective (3)
	WFA Social Science (3)		
Summer Semester			
Students are strongly encouraged to obtain career-related professional experience. Internship credit may be available with prior approval.			
JUNIOR YEAR			
Fall Semester		Spring Semester	
WFA 4123	WF Biometrics (ST 3123 & C in MA 1613)(FL)	WFA 4513	Current Topics in Human-Wildlife Interactions I (JR)(WFA 3133) (Sp Odd)
<b>WFA 4223</b>	<b>Wildlife Plant ID</b> (BIO 1134 & BIO 1144 & WFA 3133) (FL)		Writing Elective (3)
WFA 4273	Eco. & Mgt. of Human-Wildlife Conflicts (WFA 3133) (FL Odd)		Wildlife Biology Elective (3)
			Computer Application Elective (3)
WFA 4283	Human-Wildlife Conflicts Techniques (WFA 3133) (FL Odd)		Zoology Elective (4)
	Natural Resources Policy Elective (3)		
Summer Semester			
Students are strongly encouraged to obtain career-related professional experience. Internship credit may be available with prior approval.			
SENIOR YEAR			
Fall Semester		Spring Semester	
<b>WFA 4153</b>	<b>Prin. Wildlife Conservation &amp; Mgt.</b> (SO)(WFA 3133 or FO 4123)	<b>WFA 4473</b>	<b>Wildlife &amp; Fisheries Prac.</b> (SR)(WFA 3133 & WFA 4153)(SP)
<b>WFA 4353</b>	<b>Fish and Wildlife Policy and Law Enforcement</b> (SR)(FL)		Aquatics Elective (3)
	Life Science Elective (4)		Wildlife Biology Elective (3)
	HWI Professional Elective (3)		HWI Professional Elective (3)
	HWI Professional Elective (3)		HWI Professional Electives (3)

\*Survey of Chem II requires prerequisite of Survey of Chem. I Cannot switch between chemistry series.

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

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### 2020–2021 APPROVED ELECTIVE LIST Human-Wildlife Interactions 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
<b>STATISTICS ELECTIVES (MSU CORE)</b>		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) (recommended)	HI 1313	East Asian Civ to 1300
<b>ORAL COMMUNICATION ELECTIVES</b>		HI 1323	East Asian Civ II
AELC 3333	Presentations in Ag & Life Sci	HI 4683	Europe: WWI to Hitler (one HI course)
CO 1003	Fund of Public Speaking	HON 1163	The Quest Begins
CO 1013	Intro to Communication	HON 3183	Hon Sem in the Hum (SO)(EN 1103, EN 1113)
<b>WRITING ELECTIVES</b>		PHI 1103	Intro to Philosophy
AELC 3203	Prof Writing ANR Hum Sci (JR)(EN 1103, EN 1113)	PHI 1113	Intro to Logic
CO 3343	Writing for the Media (C in EN 1113)	PHI 1123	Intro to Ethics
EDF 3413	Writing for Thinking (JR)(EN 1103, EN 1113)	PHI 3023	History of Western Philosophy I
EN 3313	Writing for the Workplace (EN 1113)	PHI 3033	History of Western Philosophy II
MGT 3213	Organizational Communication (EN 1113)	PHI 3153	Aesthetics
<b>PLANT ELECTIVES</b>		REL 1103	Intro to Religion
BIO 2113	Plant Biology (BIO 1134)	REL 3213	World Religions I
BIO 2213	Survey of Plant Kingdom	REL 3223	World Religions II
BIO 4203	Taxonomy of Spermatophytes (BIO 2113, BIO 2213)		
BIO 4213	Plant Ecology		
FO 2113	Dendrology (BIO 1144 or BIO 2113)		
PSS 3133	Intro Weed Science (BIO 2113; CH 1213 or CH 1053)		

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SOCIAL SCIENCE ELECTIVES (MSU CORE)		WILDLIFE BIOLOGY ELECTIVES	
ADS 1013	Animal Agriculture & Society: Food for Thought	WFA 4423	Herpetology (WFA 3133)
AEC 2713	Introduction to Food and Resource Economics	WFA 4433	Mammalogy (WFA 3133)
AN 1103	Introduction to Anthropology	WFA 4443	Ornithology (WFA 3133)
AN 1143	Introduction to Cultural Anthropology	<b>AQUATICS ELECTIVES</b>	
AN 1543	Introduction to Archaeology	WFA 4133	Fisheries Science (ST 3123)
AN 2403	Introduction to the Study of Language	WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
CO 1223	Introduction to Communication Theory	WFA 4183	Prin & Prac of Aquaculture (BIO 1134, BIO 1144)
CO 1403	Introduction to the Mass Media	WFA 4233	Limnology (WFA 3133)
EC 1033	Economics of Social Issues	WFA 4313	Fisheries Mgt (WFA 3133)
EC 2113	Prin of Macroeconomics (SO)	WFA 4383	Wetlands Ecology (JR)(WFA 3133)
EC 2123	Prin of Microeconomics (SO)	WFA 4453	Ichthyology (WFA 3133)
EN 2403	Introduction to the Study of Language	BIO 4224	Aquatic Biology (BIO 2113, WFA 3133)
EPY 2513	Human Growth and Development	CVM 4134	Aquatic Animal Health (any microbiology, any physiology)
EPY 3503	Principles of Educational Psychology	GG 3613	Water Resources (GG 1113)
EPY 3543	Psychology of Adolescence	GG 4523	Coastal Environments (GG 4523)
FO 4113	Forest Resource Economics (AEC 2713)	<b>ZOOLOGY ELECTIVES</b>	
GR 1123	Introduction to World Geography	WFA 4453	Ichthyology (WFA 3133)
GR 2013	Cultural Geography	BIO 2103	Cell Biology (6 hours Biology, CH 1223)
HDFS 1813	Development through the Lifespan	BIO 3103	Genetics (MA 1313, BIO 1134)
HON 1173	The West and the Wider World	BIO 3304	General Microbiology (CH 1053 or CH 1223)
HON 3143	Hon Seminar in Soc Sci (SO)(EN 1103, EN 1113)	BIO 3524	Biology of Vertebrates
PO 1013	Animal Agriculture & Society: Food for Thought	EPP 2213	Intro to Insects
PS 1113	American Government	EPP 4154	General Entomology
PS 1313	Introduction to International Relations	EPP 4313	Forensic Entomology
PS 1513	Comparative Government	<b>HWI PROFESSIONAL ELECTIVES</b>	
PSY 1013	General Psychology	WFA 4463	Hum Dim of F&W Mgt (JR)
PSY 3073	Psychology of Interpersonal Relations (PSY 1013)	WFA	ANY UPPER-LEVEL WFA COURSE
SO 1003	Introduction to Sociology	BIO 4143	Population Genetics (BIO 1134, BIO 1144)
SO 1103	Contemporary Social Problems	BIO 4233	Living with Global Change
SO 1203	Sociology of Families	CVM 4180	Emergency Prep Animal Health (max 3 credits)
<b>WFA SOCIAL SCIENCE ELECTIVES</b>		PHI 1123	Intro to Ethics
AEC 2713	Intro to Food & Resource Econ	<b>COMPUTER APPLICATION ELECTIVES</b>	
EC 2113	Prin of Macroeconomics (SO)	WFA 253	Application of GIS (SR)
EC 2123	Prin of Microeconomics (SO)	AEC 1223	Computer Applications for Ag & Life Sciences
EC 4043	Survey of Economics (SR)	FO 3103	Computer Applications in Forest Resources
GR 2013	Human Geography	GR 2313	Maps & Remote Sensing
PS 1113	American Government	GR 3303	Survey of Geospatial Tech (GR 2313)
PS 1313	Intro to International Relations	TKT 1273	Computer Applications
SO 1003	Intro to Sociology	TKB 2123	Intro to Database Mgt (TKT 1273 or BIS 1012)

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LIFE SCIENCE ELECTIVES		NATURAL RESOURCE POLICY ELECTIVES	
WFA 4173	Fish Physiology (BIO 1134, BIO 1144)	WFA 4363	W&F Admin and Comm (JR)
WFA 4263	Wildlife Diseases (BIO 1134, BIO 1144)	WFA 4463	Human Dim of F&W Mgt (JR)
WFA 4323	Wildlife Nutrition and Phys (BIO 1134, BIO 1144)	FO 4343	Forest Admin & Org (JR)
ADS 4114	Animal Nutrition (CH 2503/2501 OR CH 4513/4511)	FO 4353	Natural Resource Law (JR)
ADS 4633	Immunology and Diseases in Large Livestock	FO 4413	Natural Resource Policy (SR)
BIO 3303	Parasitology (BIO 1134)	PS 4743	Environmental Policy (PS 1113, PS 2703)
BIO 3504	Comparative Anatomy (BIO 1134, BIO 1144)		
BIO 4433	Principles of Virology		
BIO 4514	Animal Physiology (10 hrs of Bio Sci & Org Chem)		
CVM 4134	Aqua Anim Health Mgt. (BIO 3304, Physiology)		
PO 4033	Diseases of Poultry		
PO 4324	Avian Reproduction		
VS 3014	Anatomy and Physiology		

### APPROVED SUBSTITUTIONS LIST FOR HUMAN-WILDLIFE INTERACTIONS CONCENTRATION

Required Courses	Approved Substitution
MA 1613 Calc. Bus/Life Science	MA 1713 Calculus I
WFA 4263 Wildlife Diseases	ADS 4633 Immunology and Diseases in Large Livestock BIO 3303 Parasitology PO 4033 Diseases of Poultry BIO 4433 Principles of Virology