

SECTION IV: DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE

**2018-2019 Wildlife, Fisheries and Aquaculture Major
Human-Wildlife Interactions Concentration (HWI)
Total Hours = 124 (effective Fall 2017)**

Freshman Year

Fall Semester

BIO 1134 Biological Sciences I
 CH 1043/1213 Survey of Chemistry I or Chemistry I (C in MA 1313 or ACT math subscore 24)
 Humanities Elective (3)
 EN 1103 English Comp. I (ACT subscore 17)
WFA 1102 Wildlife and Fisheries Profession (FR, SO, or instructor consent)(FL)

Spring Semester

BIO 1144 Biological Sciences II
 CH 1053/1223* Survey of Chemistry II (CH 1043) or Chemistry II (CH 1213)
 EN 1113 English Composition II (EN 1103)
 MA 1613 Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
 Communication Elective (3)

Sophomore Year

Fall Semester

WFA 3133 App. Aq. & Terr. Ecol. (BIO 1134 & 1144)
 Physical Science with Lab (4)
 Plant Elective (3)
 Statistics Elective (3)
 WFA Social Science (3)

Spring Semester

Life Science Elective (3)
 Fine Arts Elective (3)
 Humanities Elective (3)
 Social Science Elective (3)
 Zoology Elective (4)

Junior Year

Fall Semester

WFA 4123 WF Biometrics (ST 3123 & C in MA 1613)(FL)
WFA 4223 Wildlife Plant ID (BIO 1134 & BIO 1144 & WFA 3133) (FL, Maymester)
 WFA 4273 Eco. & Mgt. of Human-Wildlife Conflicts (WFA 3133) (FL Odd)
 WFA 4283 Human-Wildlife Conflicts Techniques (WFA 3133) (FL Odd)
 Natural Resources Policy Elective (3)

Spring Semester

WFA 4243 Wildlife Techniques (JR) (SP)
 Writing Elective (3)
 Wildlife Biology Elective (3)
 Computer Application Elective (3)
 HWI Professional Electives (3)

Summer Semester

WFA 3013 HWI Internship

Senior Year

Fall Semester

WFA 4153 Prin. Wildlife Conservation & Mgt. (SO)(WFA 3133 or FO 4123)
WFA 4353 Fish and Wildlife Policy and Law Enforcement (SR)(FL)
 WFA 4512 Advanced Topics in Human-Wildlife Conflicts I (WFA 4273, WFA 4283) (FL Even)
 Life Science Elective (4)
 HWI Professional Elective (3)

Spring Semester

WFA 4473 Wildlife & Fisheries Prac. (SR)(WFA 3133 & WFA 4153)(SP)
 WFA 4521 Advanced Topics in Human-Wildlife Conflicts II (WFA 4512)(SP Odd)
 Aquatics Elective (3)
 Wildlife Biology Elective (3)
 HWI Professional Elective (3)

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

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

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2018-2019 Approved Elective List

Wildlife, Fisheries and Aquaculture- Human-Wildlife Interactions Concentration (WFA/HWI)

Fine Arts Electives (MSU Core)

ARC 1013	Architectural Appreciation
ART 1013	History of Art I
ART 1023	History of Art II
ART 1113	Art Appreciation
CO 1503	Intro to the Theatre
HON 3173	Honors Seminar in Fine Arts (SOPH standing)
ID 3643	History of Interiors I
LA 1803	Landscape Architecture Appreciation
MU 1103	African American Music
MU 1113	His & Appr of Music
MU 1123	American Music App
MU 1133	History of Rock and Roll
PE 1323	His & Appr of Dance
PSS 2343	Floral Design
TKI 2413	His & Appr of the Artcrafts

Statistics Electives (MSU Core)

ST 2113	Intro to Stats (ACT Math subscore 24 or C in MA 1313)
ST 3123	Intro to Stat. Inf. (ACT Math subscore 24 or C in MA 1313)

Oral Communication Electives

AELC 3333	Presentations in Ag & Life Sci
CO 1003	Fund of Public Speaking
CO 1013	Intro to Communication

Writing Electives

AELC 3203	Prof Writing ANR Hum Sci (JR)(EN 1103, EN 1113)
CO 3343	Writing for the Media (C in EN 1113)
EDF 3413	Writing for Thinking (JR)(EN 1103, EN 1113)
EN 3313	Writing for the Workplace (EN 1113)
MGT 3213	Organizational Communication (EN 1113)

Plant Electives

BIO 2113	Plant Biology (BIO 1134)
BIO 2213	Survey of Plant Kingdom
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)

Humanities Electives (MSU Core)

AAS 1063	Intro to African American Studies
ARC 2313	History of Architecture I
ARC 3313	History of Architecture II (ARC 2313)
EN 2203	Intro to Lit (EN 1103, EN 1113)
EN 2213	English Lit Before 1800 (EN 1103, EN 1113)
EN 2223	English Lit After 1800 (EN 1103, EN 1113)
EN 2243	American Lit Before 1865 (EN 1103, EN 1113)
EN2253	American Lit After 1865 (EN 1103, EN 1113)
EN 2273	World Lit Before 1600 (EN 1103, EN 1113)
EN 2283	World Lit After 1600(EN 1103, EN 1113)
FL_ 1113-2143	Foreign Language
HI 1063	Early US History
HI 1073	Modern US History
HI 1163	World History Before 1500
HI 1173	World History After 1500
HI 1213	Early Western World
HI 1223	Modern Western World
HI 1313	East Asian Civ to 1300
HI 1323	East Asian Civ II
HI 4683	Europe: WWI to Hitler (one HI course)
HON 1163	The Quest Begins
HON 3183	Hon Sem in the Hum (SO)(EN 1103, EN 1113)
PHI 1103	Intro to Philosophy
PHI 1113	Intro to Logic
PHI 1123	Intro to Ethics
PHI 3023	History of Western Philosophy I
PHI 3033	History of Western Philosophy II
PHI 3153	Aesthetics
REL 1103	Intro to Religion
REL 3213	World Religions I
REL 3223	World Religions II

Physical Science with Lab

GG 1113*	Survey Earth Science I
GG 1111	Earth Science I Lab
GR 1114	Physical Geography
PSS 3303*	Soils (CH 1043)
PSS 3301	Soils Lab (CH 1043)
PH 1113	Gen Physics I (Math ACT subscore 26 or MA 1323)

*must take course and lab

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Social Science Electives (MSU Core)

ADS 1013	Animal Agriculture & Society: Food for Thought
AEC 2713	Introduction to Food and Resource Economics
AN 1103	Introduction to Anthropology
AN 1143	Introduction to Cultural Anthropology
AN 1543	Introduction to Archaeology
AN 2403	Introduction to the Study of Language
CO 1223	Introduction to Communication Theory
CO 1403	Introduction to the Mass Media
EC 1033	Economics of Social Issues
EC 2113	Prin of Macroeconomics (SO)
EC 2123	Prin of Microeconomics (SO)
EN 2403	Introduction to the Study of Language
EPY 2513	Human Growth and Development
EPY 3503	Principles of Educational Psychology
EPY 3543	Psychology of Adolescence
FO 4113	Forest Resource Economics (AEC 2713)
GR 1123	Introduction to World Geography
GR 2013	Cultural Geography
HDFS 1813	Development through the Lifespan
HON 1173	The West and the Wider World
HON 3143	Hon Seminar in Soc Sci (SO)(EN 1103, EN 1113)
PO 1013	Animal Agriculture & Society: Food for Thought
PS 1113	American Government
PS 1313	Introduction to International Relations
PS 1513	Comparative Government
PSY 1013	General Psychology
PSY 3073	Psychology of Interpersonal Relations (PSY 1013)
SO 1003	Introduction to Sociology
SO 1103	Contemporary Social Problems
SO 1203	Sociology of Families

WFA Social Science (Economics) Electives

AEC 2713	Intro to Food & Resource Econ
EC 2113	Prin of Macroeconomics (SO)
EC 2123	Prin of Microeconomics (SO)
EC 4043	Survey of Economics (SR)
GR 2013	Cultural Geography
PS 1113	American Government
PS 1313	Intro to International Relations
SO 1003	Intro to Sociology

Wildlife Biology Electives

WFA 4423	Herpetology (WFA 3133)
WFA 4433	Mammalogy (WFA 3133)
WFA 4443	Ornithology (WFA 3133)

Aquatics Electives

CVM 4134	Aquatic Animal Health (any microbiology, any physiology)
GG 3613	Water Resources (GG 1113)
GG 4523	Coastal Environments (GG 4523)
WFA 4133	Fisheries Science (ST 3123)
WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
WFA 4183	Prin & Prac of Aquaculture (BIO 1134, BIO 1144)
WFA 4233	Limnology (WFA 3133)
WFA 4313	Fisheries Mgt (WFA 3133)
WFA 4383	Wetlands Ecology (JR)(WFA 3133)

Zoology Electives

BIO 2103	Cell Biology (6 hours Biology, CH 1223)
BIO 3103	Genetics (MA 1313, BIO 1134)
BIO 3304	General Microbiology (CH 1053 or CH 1223)
BIO 3524	Biology of Vertebrates
EPP 2213	Intro to Insects
EPP 4154	General Entomology
EPP 4313	Forensic Entomology
WFA 4453	Ichthyology (WFA 3133)

HWI Professional Electives

BIO 4233	Living with Global Change
CVM 4180	Emergency Prep Animal Health (max 3 credits)
PHI 1123	Intro to Ethics
WFA 4463	Hum Dim of F&W Mgt (JR)
Any Upper-Level WFA Course	

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)
WFA 253	Application of GIS (SR)

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Life Science Electives

ADS 4114	Animal Nutrition (CH 2503/2501 OR CH 4513/4511)
BIO 3303	Parasitology (BIO 1134)
BIO 3504	Comparative Anatomy (BIO 1134, BIO 1144)
BIO 4514	Animal Physiology (10 hrs of Bio Sci & Org Chem)
PO 4844	Avian Anatomy and Phys
VS 3014	Anatomy and Physiology
WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
WFA 4263	Wildlife Diseases (BIO 1134, BIO 1144)
WFA 4323	Wildlife Nutrition and Phys (BIO 1134, BIO 1144)

Natural Resource Policy Electives

FO 4343	Forest Admin & Org (JR)
FO 4353	Natural Resource Law (JR)
FO 4413	Natural Resource Policy (SR)
PS 4743	Environmental Policy (PS 1113, PS 2703)
WFA 4363	W&F Admin and Comm (JR)
WFA 4463	Human Dim of F&W Mgt (JR)

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Approved Substitutions List for Wildlife, Fisheries, and Aquaculture Majors						
Course	Approved Substitution	Concentrations				
		CLE	HWI	WLAC	WLFS	WLVM
CO 1003 Public Speaking (pre-ferred)	CO 1013 Intro to Communication CO 1403 Intro Mass Media	Yes	Yes	Yes	Yes	Yes
MA 1613 Calc. Bus/Life Science	MA 1713 Calculus I	Yes	Yes	Yes	Yes	Yes
PH 1113 General Physics I	PH 2213 Physics I					Yes
PH 1123 General Physics II	PH 2223 Physics II					Yes
WFA 4263 Wildlife Diseases	CVM 6134 Aquatic Animal Health Management				Yes	Yes
WFA 4253 Appl of Spatial Tech in WF.	FO 4472 & 4471 GIS Nat Res. Mgt. GR 4303 Principles of GIS GR 4313 Advanced GIS	Yes Yes Yes		Yes Yes Yes		
WFA 4512 Advanced Topics in Human-Wildlife Conflicts I			Yes			
WFA 4521 Advanced Topics in Human-Wildlife Conflicts II			Yes			