

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

### 2018-2019 Wildlife, Fisheries and Aquaculture Major Wildlife Veterinary Medicine Concentration (WLVM)

**Total Hours = 124** (effective Fall 2017)

This concentration is offered to students who wish to fulfill the academic requirements for entrance into veterinary school but wish to complete a baccalaureate program before entering into veterinary school. This curriculum satisfies the academic requirements of TWS Wildlife Certification.

#### Freshman Year

##### Fall Semester

BIO 1134	Biological Sciences I
CH 1213	Chemistry I (C in MA 1313 or ACT math subscore 24)
CH 1211	Investigations in Chem. I
EN 1103	English Comp. I (ACT subscore 17)
MA 1613	Calc. for Bus. & Life Sci. (C in MA 1313 or ACT math subscore 24)
<b>WFA 1102</b>	<b>Wildlife &amp; Fisheries Profession</b> (FR or SO.) (FL)

##### Spring Semester

BIO 1144	Biological Sciences II
CH 1221	Investigations in Chem. II (CH 1211)
CH 1223	Chemistry II (CH 1213)
EN 1113	English Composition II (EN 1103)
PH 1113	General Physics I (MA 1323 or ACT math subscore 26)
	Oral Communication Elective (3)

#### Sophomore Year

##### Fall Semester

BIO 3304	Gen. Microbio. (CH 1053 or 1223)
CH 4513	Organic Chem. I (CH 1223/1221)
CH 4511	Organic Chem. I Lab (CH 1223/1221)
PH 1123	General Physics II (PH 1113)
	Plant Elective (3)

##### Spring Semester

BCH 4013	Prin. of Biochemistry (CH 2503 or BIO 1134)
BIO 3103	Genetics (MA 1313, BIO 1134)
CH 4523	Organic Chem. II (CH 4513/4511)
CH 4521	Organic Chem. II Lab (CH 4513/4511)
	Social Science Elective (3)
	Statistics Elective (3)

#### Junior Year

##### Fall Semester

BIO 2103	Cell Biology (6 hrs. bio & CH 1223)
<b>WFA 3133</b>	<b>App Aquatic &amp; Terr. Eco.</b> (BIO 1134, BIO 1144)
WFA 4123	WF Biometrics (ST 3123 & C in MA 1613)
WFA 4173	Fish Physiology (FL) or CVM 4134 Aqua Anim Health Mgt (BIO 3304, Physiology)
	Humanities Elective (3)

##### Spring Semester

	Writing Elective (3)
	Wildlife Vet Professional Elective (3)
	Wildlife Biology Elective (3)
	WFA Social Science Elective (3)
	Humanities Elective (3)

#### Summer Semester

Externship (>480 hours of work experience)

#### Senior Year

##### Fall Semester

<b>WFA 4153</b>	<b>Prin. Wildlife Cons. and Mgt.</b> (SO)(WFA 3133 or FO 4123)
<b>WFA 4223</b>	<b>Wildlife Plant ID</b> (BIO 1134 & BIO 1144 & WFA 3133) (FL)
<b>WFA 4353</b>	<b>Fish and Wild. Policy &amp; Law</b> (SR)(FL)
	Wildlife Biology Elective (3)
	Fine Arts Elective (3)

##### Spring Semester

<b>WFA 4243</b>	<b>Wildlife Techniques</b> (JR)(SP)
<b>WFA 4473</b>	<b>Wildlife &amp; Fisheries Prac.</b> (SR)(WFA 3133 & WFA 4153)(SP)
	Wildlife Vet Professional Elective (3)
	Wildlife Vet Professional Elective (3)
	Natural Resources Policy Elective (3)
	Free Elective (1)

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

An accelerated 3+1 course schedule is available to qualified students. Please check with your advisor.

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### 2018-2019 Approved Elective List

#### Wildlife, Fisheries and Aquaculture-Wildlife Veterinary Medicine (WFA/WLVM)

##### 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 (SO)
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

##### 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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### 2018-2019 Approved Elective List

#### Wildlife, Fisheries and Aquaculture-Wildlife Veterinary Medicine (WFA/WLVM)

##### 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

##### Wildlife Biology Electives

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

##### Wildlife Vet Professional Electives

ADS 4114	Animal Nutrition
BIO 3303	Parasitology
BIO 4413	Immunology
PO 4844	Avian Anatomy & Phys
WFA 4263	Wildlife Diseases
WFA 4323	Wildlife Nutrition & Phys

##### 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

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

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			