

SECTION IV: DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE

2025–2026 WILDLIFE, FISHERIES AND AQUACULTURE MAJOR Wildlife Agriculture Conservation Concentration (Sample Schedule) Total Hours = 124 <i>effective Fall 2024</i>			
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)
EN 1103	English Comp. I (ACT subscore 17)	EN 1113	English Composition II (EN 1103)
WFA 1102	Wildlife and Fisheries Profession (FR, SO) (FL)	MA 1613	Calc. for Bus. and Life Sci. (C in MA 1313 or ACT math subscore 24)
	Humanities Elective (3)		
			Oral Communication Elective (3)
SOPHOMORE YEAR			
Fall Semester		Spring Semester	
PSS 3303	Soils (CH 1043)	BIO 3103	Genetics (MA 1313, BIO 1134)
PSS 3301	Soils Lab (CH 1043)	WFA 4243	Wildlife Techniques
WFA 3133	Applied Ecology (BIO 1134 & 1144)		Statistics Elective (3)
	WFA Social Science Elective (3)		Fine Arts Elective (3)
FO 2113	Dendrology (BIO 1144 or BIO 2113)		Social Science Elective (3)
	Humanities Elective (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)	WFA 4373	Cons. in Ag. Landscapes (SP odd)
WFA 4153	Prin. Wildlife Conservation and Mgt. (WFA 3133 or FO 4123)		Crop Science Elective (3)
			WLAC Professional Elective (3)
	Writing Elective (3)		Natural Resources Policy Elective (3)
	Animal Science Elective (3)		Zoology Elective
	Crop Science 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	
WFA 4353	Fish & Wildlife Policy & Law Enforcement (SR)(FL)	WFA 4473	Wildlife & Fisheries Prac. (SR) (WFA 3133 & WFA 4153) (should be taken in last semester)
WFA 4223	Wildlife Plant ID (WFA 3133) (FL)		
	Life Science Elective	WFA 4253	Apply GIS in WF (SR)
	Aquatics Elective (3)		WLAC Professional Elective (3)
	Wildlife Biology Elective (3)		Wildlife Biology Elective (3)
			WLAC Professional Elective (3)
			Free Elective (0-2 hours as needed to meet degree requirements)

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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2025–2026 APPROVED ELECTIVE LIST Wildlife Agriculture Conservation Concentration

CREATIVE DISCOVERY ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		HUMANITIES ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (6 HOURS)	
AAS 1103	African American Music	AAS 1063	Intro to African American Studies
ARC 1013	Architectural Appreciation	AAS 2363	Intro to African American Literature
ART 1013	Art History Pre-1300s	AAS 3013	African American History to 1865
ART 1023	Art History Post-1300s	AAS 3023	African American History since 1865
ART 1113	Art Appreciation	ARC 2313	History of Architecture I
ART 2063	Global Contemporary Art	ARC 3313	History of Architecture II (ARC 2313)
ART 2413	Appreciation of Arts & Crafts Movement	BCS 2013	Construction and Culture
CO 1503	Intro to the Theatre	EN/FL 2123	Greek and Latins Roots of English
HON 3173	Honors Seminar in Fine Arts (SO)(EN 1113)	EN 2203	Intro to Lit (EN 1103, EN 1113)
ID 3643	History of Interiors I	EN 2213	English Lit Before 1800 (EN 1103, EN 1113)
LA 1803	Landscape Architecture Appreciation	EN 2223	English Lit After 1800 (EN 1103, EN 1113)
MU 1103	African American Music	EN 2243	American Lit Before 1865 (EN 1103, EN 1113)
MU 1113	His & Appr of Music		
MU 1123	American Music App	EN 2253	American Lit After 1865 (EN 1103, EN 1113)
MU 1133	History of Rock and Roll	EN 2263	Multiethnic US Lit (EN 1113)
MU 1143	History of Jazz	EN 2273	World Lit Before 1600 (EN 1103, EN 1113)
MU 1163	Intro to Music in Film	EN 2283	World Lit After 1600(EN 1103, EN 1113)
MU 1173	Music of the Beatles	EN 2463	Lit and Pop Culture (EN 1113)
MU 2173	Women in Music	FL 1113-2143	Foreign Language*
MU 3013	Survey of Western Music History I	HI 1003	History of Science in Six Ideas
PE 1323	His & Appr of Dance	HI 1013	History of Technology in Six Objects
PSS 2343	Floral Design	HI 1063	Early US History
ORAL COMMUNICATION ELECTIVES		HI 1073	Modern US History
AELC 3333	Presentations in Ag & Life Sci (AELC 3203)	HI 1163	World History Before 1500
CO 1003	Fund of Public Speaking	HI 1173	World History After 1500
CO 1013	Intro to Communication	HI 1213	Early Western World
STATISTICS ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		HI 1223	Modern Western World
ST 2113	Intro to Stats (ACT Math subscore 24 or C in MA 1313 or MA 1213)	HI 1313	East Asian Civ to 1300
		HON 1163	The Quest Begins
ST 3123	Intro to Stat. Inf. (ACT Math subscore 24 or C in MA 1313) (recommended)	HON 3183	Honors Seminar in Humanities (SO)(EN 1113)
		PHI 1103	Introduction to Philosophy
WRITING ELECTIVES		PHI 1113	Introduction to Logic
AELC 3203	Prof Writing ANR Hum Sci (JR)(EN 1103, EN 1113)	PHI 1123	Intro to Ethics
		PHI 3023	History of Western Philosophy I
CO 3343	Writing for the Media (C in EN 1113)	PHI 3033	History of Western Philosophy II
EDF 3413	Writing for Thinking (EN 1103, EN 1113)	PHI 3153	Aesthetics
EN 3313	Writing for the Workplace (EN 1113)	REL 1103	Intro to Religion
MGT 3213	Organizational Communication (EN 1113)	REL 3213	World Religions I
		REL 3223	World Religions II
NATURAL RESOURCE POLICY ELECTIVES			
		WFA 4363	W&F Admin and Comm (JR)
		WFA 4463	Human Dim of F&W Mgt (JR)
		FO 4343	Forest Admin & Org (JR)
		FO 4353	Natural Resource Law (JR)
		FO 4413	Natural Resource Policy (SR)
		PS 4743	Environmental Policy (PS 2703)

* Chinese, French, German, Greek, Italian, Japanese, Latin, Russian and Spanish.

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SOCIAL SCIENCE ELECTIVES		WILDLIFE BIOLOGY ELECTIVES	
(MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		WFA 4423	Herpetology (WFA 3133)
ADS 1013	Animal Agriculture & Society: Food for Thought	WFA 4433	Mammalogy (WFA 3133)
AEC 2713	Introduction to Food and Resource Economics	WFA 4443	Ornithology (WFA 3133)
AN 1103	Introduction to Anthropology	AQUATICS ELECTIVES	
AN 1143	Introduction to Cultural Anthropology	WFA 4133	Fisheries Science (ST 3123)
AN 1543	Introduction to Archaeology	WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
AN 2403	Introduction to the Study of Language	WFA 4183	Prin & Prac of Aquaculture (BIO 1134, BIO 1144)
CO 1223	Introduction to Communication Theory		
CO 1403	Introduction to the Mass Media	WFA 4233	Limnology (WFA 3133)
DSCI 2013	Data Science Literacy	WFA 4313	Fisheries Mgt (WFA 3133)
EC 1033	Economics of Social Issues (can't be taken with prior EC credit)	WFA 4383	Wetlands Ecology (JR)(WFA 3133)
		WFA 4453	Ichthyology (WFA 3133)
EC 2113	Prin of Macroeconomics (SO)	BIO 4224	Aquatic Botany (BIO 2113, WFA 3133)
EC 2123	Prin of Microeconomics (SO)	CVM 4134	Aquatic Animal Health (any microbiology, any physiology)
EN 2403	Introduction to the Study of Language		
EPY 2513	Human Growth and Development	GG 3613	Water Resources
EPY 3503	Principles of Educational Psychology	GG 4523	Coast Environments
EPY 3543	Psychology of Adolescence	ZOOLOGY ELECTIVES	
FO 4113	Forest Resource Economics (AEC 2713)	WFA 4113	Animal Behavior
GR 1123	Introduction to World Geography	WFA 4453	Ichthyology (WFA 3133)
GR 2013	Human Geography	BIO 2103	Cell Biology (6 hours Biology, CH 1223)
HDFS 1813	Development through the Lifespan	BIO 3304	General Microbiology (CH 1053 or CH 1223)
HON 1173	The West and the Wider World	BIO 3524	Biology of Vertebrates
HON 3143	Hon Seminar in Soc Sci (SO)(EN 1103, EN 1113)	EPP 2213	Intro to Insects
		EPP 4154	General Entomology
PO 1013	Animal Agriculture & Society: Food for Thought	EPP 4313	Forensic Entomology
PS 1113	American Government	CROP SCIENCE ELECTIVES (6 HOURS)	
PS 1313	Introduction to International Relations	EPP 4113	Principles of Plant Pathology
PS 1513	Comparative Government	EPP 4263	Principles of Insect Pest Mgt
PSY 1013	General Psychology	PSS 3133	Intro to Weed Science
PSY 3073	Psychology of Interpersonal Relations (PSY 1013)	PSS 4103	Forage and Pasture Crops
		PSS 4123	Grain Crops
SO 1003	Introduction to Sociology	PSS 4133	Fiber and Oilseed Crops
SO 1103	Contemporary Social Problems	PSS 4453	Vegetable Production (PSS 3303, PSS 3301)
SO 1203	Sociology of Families	PSS 4633	Weed Biology (PSS 3133)
WFA SOCIAL SCIENCE ELECTIVES		Free electives may be needed to meet 124 total hours.	
(MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)			
ADS 1013	Animal Agriculture & Society: Food for Thought		
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	Human Geography		
PS 1113	American Government		
PS 1313	Intro to International Relations		
SO 1003	Intro to Sociology		

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ANIMAL SCIENCE ELECTIVES		WLAC PROFESSIONAL ELECTIVES (9 HOURS)	
ADS 1113	Animal Science	WFA 4000	Directed Indiv Study (3 hours max)
ADS 3312	Livestock Management Practices (ADS 1113, ADS 1121)	WFA 4183	Prin & Prac of Aquaculture (BIO 1134, BIO 1144)
ADS 4123	Animal Breeding (PO 3103, ST 2113)	WFA 4273	Eco Mgt Human Wildlife Conflicts (WFA 3133)
ADS 4223	Goat and Sheep Production (ADS 1113, ADS 1121, ADS 3013)	WFA 4283	Human Wildlife Conflict Techniques (WFA 3133)
ADS 4323	Beef Cattle Science (ADS 1113, ADS 1121, ADS 3013)	WFA 4373	Cons in Ag Landscapes
		WFA 4383	Wetlands Ecology (WFA 3133)
ADS 4813	Dairy Farm Mgt (ADS 1113, ADS 1121, ADS 3013)	WFA 4613	Landscape Ecology (WFA 3133, ST 2113)
		WFA 4484	Upland Avian Ecology (WFA 3133, WFA 4153)
LIFE SCIENCE ELECTIVES			
WFA 4173	Fish Physiology (BIO 1134, BIO 1144)	WFA	Any Upper-Level WFA Course
WFA 4263	Wildlife Diseases (BIO 1134, BIO 1144)	ABE 4313	Bio Treatment of NPS Pollution
WFA 4323	Wildlife Nutrition and Phys (BIO 1134, BIO 1144)	AEC 1223	Comp Appl for Ag and Life Sci
		AEC 2713	Intro to Food & Resource Economics
ADS 1113	Animal Science (WLAC Only)	BIO 4143	Population Genetics (BIO 1134, BIO 1144)
ADS 1121	Animal Science Lab	BIO 4233	Living with Global Change
ADS 3013	Anatomy and Physiology (BIO 1134 or BIO 1144)	BIO 4263	Wetland Plants and Sustain (BIO 2113)
		BIO 4603	Ethnobotany (BIO 1134, BIO 1144)
ADS 4114	Animal Nutrition (CH 2503/2501 OR CH 4513/4511)	EPP 4154	General Entomology
		FO 3103	Comp Appl in Forest Resources
BIO 3303	Parasitology (BIO 1134)	FO 3203	Forest Fire
BIO 3504	Comparative Anatomy (BIO 1134, BIO 1144)	FO 4123	Forest Ecology ((BIO 1144 or BIO 2113) (JR)
BIO 4514	Animal Physiology (10 hrs Bio Sci & Org Chem)		Silviculture (FO 3012; FO 3015 and FO 4123 or WFA 3133 AND WFA 4223) (Co-req: FO 4221)
PO 4324	Avian Reproduction	FO 4223	
		FO 4221	Silviculture Lab (FO 3012, FO 3015, and FO 4123 or WFA 3133 and WFA 4223) (Co-req: FO 4123)
		GG 3133	Intro Environ Geology (GG 1113)
		GG 3613	Water Resources
		GR 2313	Maps and Remote Sensing
		GR 3113	Cons Nat Resources
		GR 4313	Advanced GIS (GR 4303)
		PS 2703	Intro Public Policy
		PSS 4333	Soil Cons & Land Use (PSS 3303)
		PSS 4373	Geospatial Agronomic Ag (PSS 3303, PSS 3133)
		PSS 4633	Weed Ecology (BIO 2113, PSS 3133)
		PSS 4743	Enviro Policy (PS 2703)

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WLAC

APPROVED SUBSTITUTIONS LIST FOR WILDLIFE AGRICULTURE CONSERVATION SCIENCE CONCENTRATION	
Required Courses	Approved Substitution
BIO 3103 Genetics	BIO 4143 Population Genetics (BIO 1134, BIO 1144)
EN 1103 English Comp I	C or better in EN 1104 Expanded English Comp I (ACT English Sub-score of 16 or below)
EN 1113 English Comp II	EN 1173 Accelerated Comp II
FO 2113 Dendrology	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, PSS 3133 Intro Weed Science (BIO 2113, CH 1213 or CH 1053)
MA 1613 Calc. Bus/Life Science	MA 1713 Calculus I
WFA 4253 Appl GIS in WF	FO 4313 Spatial Tech in Nat. Res. Mgt. (FO 3015 or GR 2313) FO 4473 GIS Nat Res. Mgt. (FO 3015 or GR 2313) GR 2313 Maps and Remote Sensing GR 3303 Survey of Geospatial Tech (GR 2313) GR 4303 Principles of GIS GR 4313 Advanced GIS