

SECTION IV: DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE

2023–2024 WILDLIFE, FISHERIES AND AQUACULTURE MAJOR Wildlife, Fisheries and Aquaculture Science Concentration (Sample Schedule) Total Hours = 124 <i>effective Fall 2023</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, or instructor consent)(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)	WFA 4243	Wildlife Techniques (SO)
PSS 3301	Soils Lab (CH 1043)		Life Science Elective
WFA 3133	Applied Ecology (BIO 1134 & 1144)		Humanities Elective (3)
	Statistics Elective (3)		Fine Arts Elective (3)
	WFA Social Science Elective (3)		WLFS Professional Elective (3)
FO 2113	Dendrology (BIO 1144)		
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 4153	Prin Wildlife Conservation and Management (SO)(WFA 3133 or FO 4123)	WFA 4123	Wildlife & Fisheries Biometrics (ST 3123 & C in MA 1613)
BIO 3103	Genetics (MA 1313, BIO 1134)**		Wildlife Biology Elective (3)
	Computer Application Elective (3)		Zoology Elective (4)
	Wildlife Biology Elective (3)		Aquatics Elective (3)
	WLFS Professional Elective (3)		WLFS 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	
WFA 4353	Fish and Wildlife Policy and Law Enforcement (SR)(FL)	WFA 4473	Wildlife and Fisheries Practices (SR)(WFA 3133 and WFA 4153)(SP) (should be taken in last semester)
WFA 4223	Wildlife Plant ID (BIO 1134 & BIO 1144 & WFA 3133) (FL)		Writing Elective (3)
	WLFS Professional Elective (3)		Social Science Elective (3)
	WLFS Professional Elective (3)		WLFS Professional Elective (3)
	WLFS Professional Elective (3)		WLFS 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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FINE ARTS ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		HUMANITIES ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (6 HOURS)	
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/FL 2123	Greek and Latins Roots of English
ART 2063	Global Contemporary Art	EN 2203	Intro to Lit (EN 1103, EN 1113)
ART 2413	His & Appr of the Artcrafts	EN 2213	English Lit Before 1800 (EN 1103, EN 1113)
CO 1503	Intro to the Theatre	EN 2223	English Lit After 1800 (EN 1103, EN 1113)
HON 3173	Honors Seminar in Fine Arts (SO)	EN 2243	American Lit Before 1865 (EN 1103, EN 1113)
ID 3643	History of Interiors I		
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
STATISTICS ELECTIVES (MSU CORE) (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		HI 1173	World History After 1500
		HI 1213	Early Western World
ST 2113	Intro to Stats (ACT Math subscore 24 or C in MA 1313 or MA 1213)	HI 1223	Modern Western World
		HI 1313	East Asian Civ to 1300
ST 3123	Intro to Stat. Inf. (ACT Math subscore 24 or C in MA 1313)(recommended)	PHI 3153	Aesthetics
		REL 1103	Intro to Religion
ORAL COMMUNICATION ELECTIVES		REL 3213	World Religions I
AELC 3333	Presentations in Ag & Life Sci (AELC 3203)	REL 3223	World Religions II
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)		
BCH 4503	Science Communication Skills		
CO 3343	Writing for the Media (C in EN 1113)		
EDF 3413	Writing for Thinking (EN 1103, EN 1113)		
EN 3313	Writing for the Workplace (EN 1113)		
MGT 3213	Organizational Communication (EN 1113)		

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SOCIAL SCIENCE ELECTIVES (MSU CORE) (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		WILDLIFE BIOLOGY ELECTIVES	
		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)
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 Botany (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		
EPY 3543	Psychology of Adolescence	GG 3613	Water Resources
FO 4113	Forest Resource Economics (AEC 2713)	GG 4523	Coast Environments
GR 1123	Introduction to World Geography	ZOOLOGY ELECTIVES	
GR 2013	Human Geography	WFA 4113	Animal Behavior
HDFS 1813	Development through the Lifespan	WFA 4453	Ichthyology (WFA 3133)
HON 1173	The West and the Wider World	BIO 2103	Cell Biology (6 hours Biology, CH 1223)
HON 3143	Hon Seminar in Soc Sci (SO)(EN 1103, EN 1113)	BIO 3304	General Microbiology (CH 1053 or CH 1223)
		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	LIFE SCIENCE ELECTIVES	
PSY 1013	General Psychology	WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
PSY 3073	Psychology of Interpersonal Relations (PSY 1013)	WFA 4263	Wildlife Diseases (BIO 1134, BIO 1144)
		WFA 4323	Wildlife Nutrition and Phys (BIO 1134, BIO 1144)
SO 1003	Introduction to Sociology	ADS 4114	Animal Nutrition (CH 2503/2501 OR CH 4513/4511)
SO 1103	Contemporary Social Problems		
SO 1203	Sociology of Families		
WFA SOCIAL SCIENCE ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		BIO 3303	Parasitology (BIO 1134)
		BIO 3504	Comparative Anatomy (BIO 1134, BIO 1144)
ADS 1013	Animal Agriculture & Society: Food for Thought	BIO 4433	Principles of Virology
AEC 2713	Intro to Food & Resource Econ	BIO 4514	Animal Physiology (10 hrs Bio Sci & Org Chem)
EC 2113	Prin of Macroeconomics (SO)	CVM 4134	Aqua Animal Health Mgt (BIO 3304, Phys course)
EC 2123	Prin of Microeconomics (SO)		
EC 4043	Survey of Economics (SR)	PO 4033	Diseases of Poultry
GR 2013	Human Geography	PO 4324	Avian Reproduction
PS 1113	American Government	VS 3014	Anatomy and Physiology
PS 1313	Intro to International Relations		
SO 1003	Intro to Sociology		

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WLFS PROFESSIONAL ELECTIVES		COMPUTER APPLICATION ELECTIVES	
WFA	Any Upper-Level WFA Course	WFA 4123	Wildlife and Fisheries Biometrics (ST 3123, C or better in MA 1613)
BCH 4503	Science Communication Skills		
BIO 2503	Environmental Quality (any BIO course)	WFA 4253	Application of GIS in WF (SR)
BIO 3113	Marine Biology (BIO 1134)	AEC 1223	Computer Applications for Ag & Life Sciences
BIO 3303	Parasitology (BIO 1134)	CSE 1013	CSE AP Credit
BIO 4113	Evolution (MA 1313, BIO 1134, BIO 1144, BIO 3103)	FO 3103	Computer Applications in Forest Resources
		GR 2313	Maps & Remote Sensing
BIO 4143	Population Genetics (BIO 1134, BIO 1144)	GR 3303	Survey of Geospatial Tech. (GR 2313)
BIO 4233	Living with Global Change	TECH 1273	Computer Applications
BIO 4603	Ethnobotany (BIO 1134, BIO 1144)	TKB 2123	Intro to Database Mgt (TKT 1273 or BIS 1012)
BIO 4703	Avian Diversity (BIO 1134, BIO 1144)		NATURAL RESOURCE POLICY ELECTIVES
CO 4323	Mass Media-Society	WFA 4363	W&F Admin and Comm (JR)
CVM 4180	Emergency Prep Animal Health (3 hrs max)	WFA 4463	Hum Dim WF Mgt
EPP 4154	General Entomology	FO 4343	Forest Admin & Org (JR)
FO 3113	For Recreation Management	FO 4353	Natural Resource Law (JR)
FO 3203	Forest Fire	FO 4413	Natural Resource Policy (SR)
FO 4223	Silviculture (WFA 3133, WFA 4223)	PS 4743	Environmental Policy (PS 1113, PS 2703)
FO 4221	Silviculture Lab (coreq: FO 4223)		
FO 4313	Spatial Tech in NR Mgt (FO 3015 or GR 2313)		
GG 3603	Intro to Oceanography		
GG 4523	Coast Environments		
GR 3113	Conservation of NR (JR)		
GR 4303	Principles of GIS		
PHI 4143	Phil of Science		

APPROVED SUBSTITUTIONS LIST FOR WILDLIFE, FISHERIES AND AQUACULTURE 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