

SECTION IV: DEPARTMENT OF WILDLIFE, FISHERIES AND AQUACULTURE

2023–2024 WILDLIFE, FISHERIES AND AQUACULTURE MAJOR Conservation Biology 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 1213	Chemistry I (C in MA 1313 or ACT math subscore 24)	CH 1223	Chemistry II (C or better in CH 1213)
CH 1211	Investigations in Chemistry I	CH 1221	Investigations in Chemistry II
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	Calculus for Business and Life Sciences
			Oral Communication Elective (3)
	Humanities Elective (3)		
SOPHOMORE YEAR			
Fall Semester		Spring Semester	
WFA 3133	Applied Ecology (BIO 1134 & 1144)	WFA 4243	Wildlife & Fisheries Techniques (SO)
BIO 3103	Genetics (MA 1313, BIO 1134)	CH 2503	Elementary Organic Chemistry (CH 1213)
	Statistics Elective (3)		Aquatics Elective (3)
FO 2113	Dendrology (BIO 1144)		Humanities Elective (3)
	WFA Social Science Elective (3)		Computer Applications Elective (3)
SUMMER SEMESTER			
Students are encouraged to obtain Wildlife, Fisheries or Conservation Biology experience during the summer. Internship credit for professional experience may apply toward professional elective hours.			
JUNIOR YEAR			
Fall Semester		Spring Semester	
WFA 4123	Wildlife & Fish Biometrics (Stats, C or better in MA 1613)	WFA 4153	Principles Wildlife Cons. & Mgt. (WFA 3133)
		WFA 4633	Problem Solving in Conservation Biology (WFA 4623) (SP)
WFA 4623	Conservation Biology (FL)		
	Professional Elective (3)	BIO 4113	Evolution (MA 1313, BIO 1134, BIO 1144, BIO 3103)
	Social Science Elective (3)		Nat Res Policy Elective (3)
	Fine Arts Elective (3)		Writing Elective (3)
SUMMER SEMESTER			
Students are encouraged to obtain Wildlife, Fisheries or Conservation Biology experience during the summer. Internship credit for professional experience may apply toward professional elective hours.			
SENIOR YEAR			
Fall Semester		Spring Semester	
WFA 4353	Fish and Wild. Policy & Law (SR)(FL)	WFA 4253	Applications of GIS in Wildlife Sciences (SR) (SP)
WFA 4881	Current Topics in Conservation Biology (WFA 3133, WFA 4623) (FL)	WFA 4473	WL & Fish Practices (SR) (WFA 3133, WFA 4153) (should be taken in last semester)
WFA 4223	Wildlife Plant ID (BIO 1134, BIO 1144 & WFA 3133) (FL)		Organismal Elective (3)
	Organismal Elective (3)		Professional Elective (3)
	Professional Elective (3)		Professional Elective (3)
	Professional Elective (3)		Professional Elective (3)

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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CONB		2023–2024 APPROVED ELECTIVE LIST Conservation Biology Concentration	
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	Introduction to African American Studies
ART 1013/1023	Art History I or II	AAS 2363	Introduction to African American Literature
ART 1113	Art Appreciation	AAS 3013/3023	African American History
ART 2063	Global Contemporary Art	ARC 2313/3313	History of Architecture I or II
ART 2413	Hist. and Appr. of the Arts	EN 2203	Intro. to Literature (EN 1103, EN 1113)
CO 1503	Intro. to Theater	EN 2213/2223	English Literature I or II (EN 1103, EN 1113)
ID 3643	History of Interiors I	EN 2243/2253	American Literature I or II (EN 1103, EN 1113)
LA 1803	Landscape Architecture Appr.	EN 2273/2283	World Literature I or II (EN 1103, EN 1113)
MU 1113	History and Appr. of Music	FL 1113/1123	Language I or II
MU 1123	History and Appr. of American Music	HI 1003	History of Science in Six Ideas
MU 1133	The History of Rock and Roll	HI 1013	History of Technology in Six Objects
MU 1143	The History of Jazz	HI 1063/1073	Early or Modern US History
MU 1163	Introduction to Music in Film	HI 1163/1173	World History I or II
MU 1173	Music of the Beatles	HI 1213/1223	Early or Modern Western World
MU 2173	Women in Music	HI 1313/1323	East Asian Civilizations I or II
MU 3013	Survey of Western Music History I	HI 4683	Europe: The First World War to Hitler
PE 1323	History and Appr. of Dance	PHI 1103	Intro. to Philosophy
PSS 2343	Floral Design	PHI 1113	Intro. to Logic
TECHNICAL WRITING ELECTIVES (3 HOURS)		PHI 3023/3033	History of Western Philosophy I or II
AELC 3203	Prof Writing Ag, NR, Human Sci. (JR) (EN 1103 or EN 1113)	PHI 3153	Aesthetics
BCH 4503	Sci Comm Skills (JR)	REL 1103	Intro. to Religion
CO 3343	Writing for the Media (C in EN 1113)	REL 3213/3223	World Religions I or II
EDF 3413	Writing for Thinking (EN 1103, EN 1113)	STATISTICS ELECTIVES (MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)	
EN 3313	Writing for the Workplace (EN 1113)	ST 2113	Intro to Stats (ACT Math subscore 24 or C in MA 1313 or MA 1213)
MGT 3213	Organizational Communication (EN 1113)	ST 3123	Intro to Stat. Inf. (ACT Math subscore 24 or C in MA 1313)
COMPUTER APPLICATION ELECTIVES (3 HOURS)		NATURAL RESOURCE POLICY ELECTIVES (3)	
AEC 1223	Computer Applications for Ag & Life Sciences	WFA 4363	W&F Admin and Comm (JR)
CSE 1013	CSE AP Credit	WFA 4463	Human Dim of F&W Mgt (JR)
FO 3103	Computer Applications in Forest Resources	FO 4343	Forest Admin & Org (JR)
GR 2313	Maps & Remote Sensing	FO 4353	Natural Resource Law (JR)
GR 3303	Survey of Geospatial Tech (GR 2313)	FO 4413	Natural Resource Policy (SR)
TECH 1273	Computer Applications	PS 4743	Environmental Policy (PS 1113, PS 2703)
TKB 2123	Intro to Database Mgt (TKT 1273 or BIS 1012)		
ORAL COMMUNICATION ELECTIVES (3 HOURS)			
AELC 3333	Presentations in Ag & Life Sci (AELC 3203)		
CO 1003	Fund of Public Speaking		
CO 1013	Intro to Communication		

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2023–2024 APPROVED ELECTIVE LIST Conservation Biology Concentration

WFA SOCIAL SCIENCES ELECTIVES		CONSERVATION BIOLOGY PROFESSIONAL ELECTIVES	
(MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)			
ADS 1013	Animal Agriculture & Society: Food for Thought	WFA 4113	Animal Behavior
AEC 2713	Intro to Food & Resource Econ	WFA 4263	Wildlife Diseases
AN 1143	Cultural Anthropology	WFA 4273	Management Human-Wildlife Interactions
EC 2113	Prin of Macroeconomics (SO)	WFA 4313	Fisheries Management (WFA 3133)
EC 2123	Prin of Microeconomics (SO)	WFA 4373	Conservation in Ag Landscapes
EC 4043	Survey of Economics (SR)	WFA 4383	Wetlands Ecology
GR 1123	Introduction to World Geography	WFA 4393	Urban Wildlife Ecology (C or better in WFA 3133, JR standing)
GR 2013	Human Geography		
PS 1113	American Government	WFA 4394	Waterfowl Ecol & Mgt (C or better in WFA 3133, JR standing)
PS 1313	Intro to International Relations		
SO 1003	Intro to Sociology	WFA 4463	Human Dimensions WF Management
SOCIAL SCIENCES ELECTIVES		WFA 4483	Seminar in Tropical Ecology
(MUST SATISFY MSU GENERAL EDUCATION) (3 HOURS)		WFA 4484	Upland Avian Ecology and Management
ADS 1013	Animal Agriculture & Society: Food for Thought	AN 3163	Maritime and Fishing People
AEC 2713	Introduction to Food and Resource Economics	AN 3333	Primate Behavior
AN 1103	Introduction to Anthropology	AN/SO 4173	Environment and Society
AN 1143	Introduction to Cultural Anthropology	BCH 4013	Principles of Biochemistry
AN 1543	Introduction to Archaeology	BIO 2503	Environmental Quality
AN 2403	Introduction to the Study of Language	BIO 3303	Parasitology (BIO1134)
CO 1223	Introduction to Communication Theory	BIO 3304	General Microbiology (CH 1053 or CH 1223)
CO 1403	Introduction to the Mass Media	BIO 4123	Behavioral Ecology (MA 1313, BIO 1134, BIO 1144, BIO 3103, BIO 4133)
EC 1033	Economics of Social Issues		
EC 2113	Prin of Macroeconomics (SO)	BIO 4143	Population Genetics (BIO 2113)
EC 2123	Prin of Microeconomics (SO)	BIO 4213	Plant Ecology
EN 2403	Introduction to the Study of Language	BIO 4233	Living with Global Change
EPY 2513	Human Growth and Development	BIO 4603	Ethnobotany
EPY 3503	Principles of Educational Psychology	BIO 4703	Avian Diversity (BIO 1134, BIO 1144)
EPY 3543	Psychology of Adolescence	BIO 4993	Community Ecology (JR)
FO 4113	Forest Resource Economics (AEC 2713)	GG 3613	Water Resources
GR 1123	Introduction to World Geography	GG 4523	Coast Environments
GR 2013	Human Geography	NREC 3213	Environmental Measurements (ST 2113)
HDFS 1813	Development through the Lifespan	NREC 4423	Environmental Assessments
HON 1173	The West and the Wider World	PS 4743	Environmental Policy (PS 1013)
HON 3143	Hon Seminar in Soc Sci (SO)(EN 1103, EN 1113)	SO 4703	Population Problems (SO 1003)
		Con Bio Organismal Elective with Approval	
		AQUATICS ELECTIVES	
PO 1013	Animal Agriculture & Society: Food for Thought	WFA 4133	Fisheries Science (ST 3123)
PS 1113	American Government	WFA 4173	Fish Physiology (BIO 1134, BIO 1144)
PS 1313	Introduction to International Relations	WFA 4183	Prin & Prac of Aquaculture (BIO 1134, BIO 1144)
PS 1513	Comparative Government		
PSY 1013	General Psychology	WFA 4233	Limnology (WFA 3133)
PSY 3073	Psychology of Interpersonal Relations (PSY 1013)	WFA 4313	Fisheries Mgt (WFA 3133)
SO 1003	Introduction to Sociology	WFA 4383	Wetlands Ecology (JR)(WFA 3133)
SO 1103	Contemporary Social Problems	WFA 4453	Ichthyology (WFA 3133)
SO 1203	Sociology of Families	CVM 4134	Aquatic Animal Health (any microbiology, any physiology)
CONSERVATION BIOLOGY ORGANISMAL ELECTIVES		GG 3613	Water Resources
WFA 4423	Herpetology (WFA 3133)	GG 4523	Coast Environments
WFA 4433	Mammalogy (WFA 3133)	BIO 4224	Aquatic Biology (BIO 2113, WFA 3133)
WFA 4443	Ornithology (WFA 3133)		
WFA 4453	Ichthyology (WFA 3133)		
BIO 2513	Animal Diversity (BIO 1134, BIO 1144)		
BIO 3524	Biology of Vertebrates		
BIO 4203	Taxonomy of Spermatophytes (BIO 2113, BIO 2213)		
BIO 4213	Plant Ecology		
EPP 4154	Entomology		

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CONB

APPROVED SUBSTITUTIONS LIST FOR CONSERVATION BIOLOGY CONCENTRATION

Required Courses	Approved Substitution
BIO 3103 Genetics	Bio 4143 Population Genetics (BIO 1134, BIO 1144)
CH 2503 Elementary Organic Chemistry	CH 4513 Organic Chemistry (C in CH1223)
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 (substitutions with consent of advisor)	Bio 2213 Survey of Plant Kingdom BIO 4203 Taxonomy of Spermatophytes (BIO 1123, BIO 2213)
MA 1613 Calc. Bus/Life Science	MA 1713 Calculus I
WFA 4253 Appl of GIS in WF	FO 4313 Spatial Tech in Nat. Res. Mgt. (FO 3015 or GR 2313) FO 4473 GIS Nat Res. Mgt. GR 2313 Maps and Remote Sensing GR 3303 Survey of Geospatial Tech (GR 2313) GR 4303 Principles of GIS