

SECTION III: DEPARTMENT OF FORESTRY

2017-2018 Natural Resource and Environmental Conservation Major Resource Conservation Science (NREC/RCS)

Total Hours = 124

Freshman Year

Fall Semester		Spring Semester	
BIO 1134	Biological Sciences I	BIO 1144	Biological Sciences II
EN 1103	English Comp. I (ACT English subscore 17)	EN 1113	English Comp. II (EN 1103)
FO 1101	Forest Resources Survey	GR 1114	Physical Geography
AEC 2713	Intro Food Res Econ	SO 1003	Intro to Sociology
MA 1313	College Algebra (ACT math subscore 19)	MA 1613	Calc for Bus and Life Sci (C in MA 1313 or ACT math subscore 24)

Sophomore Year

Fall Semester		Spring Semester	
CH 1213	Chemistry I (C in MA 1313 or ACT math subscore 24)	CH 1223	Chemistry II (CH 1213)
CH 1211	Investigations in Chemistry I	CH 1221	Investigations in Chemistry II (CH 1211)
FO 3113	Forest Recreation Management	CO 1003	Fund of Public Speaking
ST 2113	Intro to Stat (C in MA 1313 or ACT math subscore 24)	FO 3103	Computer Appl For Resources
LA 1803	Landscape Arch Apprec	GR 2313	Maps and Remote Sensing
Humanities Elective (3)		PHI 1123	Intro to Ethics

Junior Year

Fall Semester		Spring Semester	
FO 2113	Dendrology (BIO 1144, or BIO 2113)	FO 4213	Forest Biometrics (ST 2113)
PSS 3303	Soils (CH 1213)	NREC 3213	Environmental Measurements (ST 2113)
PSS 3301	Soils Lab	FO 4353	Natural Resource Law (Jr)
AELC 3203	Prof. Writing Ag, NR & Human Sci. (Jr., EN 1103, EN 1113)		Professional Elective (3)
WFA 3133	Appl Aquatic Terrestrial Ecol (Bio 1134, BIO 1144)		Emphasis Elective (3)
Emphasis Elective (3)			

Senior Year

Fall Semester		Spring Semester	
FO 4343	Forest Admin and Organization	NREC 4423	Environmental Assessments (Sr)
FO 4313	Spatial Tech. in Nat. Res. (GR 2313)	FO 4413	Natural Resource Policy (Sr)
Professional Elective (3)		FO 4463	Forest Hydrology & Water Management (PSS 3303)
Emphasis Elective (3)			Emphasis Elective (3)
Emphasis Elective (3)			Free Elective (3)

***Major courses are bolded. Grades of C or better are required in these courses.**

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2017-2018 Approved Elective List

Natural Resources Environmental Conservation, Concentration: Resource Conservation Science

Professional Elective (6 hours)

BIO 3103	Genetics I (MA 1313, BIO 1134, or BIO 2113)
BIO 3104	Ecology (BIO 1134)
BIO 4233	Living with Global Change
CE 2803	Environ Engr Issues (C or better in CH 1223)
CH 4513/4511	Org Chem I & Lab (CH 1221 and CH 1223.)
CH 4523/4521	Org Chem II & Lab (CH 4511 and CH 4513)
ENS 2103	Intro Environ Sci
FO	ANY UPPER LEVEL FO COURSE
FO 4683	Intro to Urban and Community Forests
GR 2313	Maps Remote
GR 3113	Conserv of Nat Res
GR 4603	Climatology (GR 1114 or GR 1123)
PHI 3313	Environmental Ethics
SBP 2012	Intro to Bioproduct Industry
ST 4213	Nonparametric Meth (ST 2113)
WFA	ANY UPPER LEVEL WFA COURSE

Humanities (3 hours)

ARC 2313/3313	History of Architecture
EN 2203	Intro. to Literature (EN 1103, EN1113)
EN 2213/2223	English Literature (EN 1103, EN1113)
EN 2243/2253	American Literature I (EN 1103, EN1113)
EN 2273/2283	World Literature I (EN 1103, EN1113)
FL 1113/1123	Elem. Foreign Language ¹
HI 1063/1073	Early or Modern US History
HI 1163/1173	World History I or II
HI 1213/1223	Early or Modern Western World
HI 1313/1323	East Asian Civilizations I or II
PHI 1103	Intro. to Philosophy
REL 1103	Intro. to Religion
REL 3213	World Religions I
REL 3223	World Religions II

¹ French, German, Greek, Japanese, Latin, Russian and Spanish

Aquatic Emphasis Electives:

BIO 4224	Aquatic Botany (BIO 2203 and one of WFA 3133 or BIO 3104)
CE 3503/3501	Water Res Engr & Lab (C or better in CE 2803, credit or concurrent enrollment in EM 3313)
GG 3613	Water Resources (GG 1113)
GG 4613	Phys Hydrogeology (GG 3613)
GG 4623	Chem Hydrogeology (CE 3523 or GG 4613)
WFA 4233	Limnology (WFA 3133)
WFA 4383	Wetlands Ecol & Mgt (Jr., WFA 3133)

Terrestrial Emphasis Electives

ABE 4263	Soil and Water Mgt (ABE 2873)
BIO 2113	Plant Biology (BIO 1134)
BIO 2213	Survey Plant Kingdom
BIO 3104	Ecology
BIO 4203	Tax of Spermatophyte (BIO 2113 and BIO 2213)
BIO 4204	Plant Anatomy (BIO 2113 and BIO 2213)
BIO 4213	Plant Ecology
BIO 4214	Gen Plant Physiology (BIO 2113 and CH 1213)
EPP 3124	Forest Pest Mgt
EPP 4154	General Entomology
EPP 4263	Prin Insect Pest Mgt
FO 3213	Tree Physiology (BIO 1134, BIO 1144)
FO 4231	Intro to Wood Supply Sys (Co-req FO 3015)
FO 4573	Ecology of Managed Forests
Any other FO 4000-level course for which prerequisites have been satisfied	
GG 1113	Survey Earth Sci I
GG 3133	Intro Environ Geol (GG 1113)
PSS 1313	Plant Science
PSS 3133	Intro Weed Science (BIO 1203, CH 1213, or CH 1053)
PSS 4103	Forage Pasture
PSS 4313	Soil Fertility (PSS 3303)
PSS 4333	Soil Conservation (PSS 3303)
PSS 4603	Soil Chemistry (PSS 3303)

Approved Substitutions List for Resource Conservation Science Concentration

Required Courses	Approved Substitutions
AEC 2713 Int to Food & Res Eco	EC 2123 Microeconomics (So., EC 2113), EC 2113 (So.)
AELC 3203 Prof Writing Ag, NR, Human Sci.	MGT 3213 Organ. Comm. (Jr., EN 1113) or BIO 3013 Prof. Writing for Biologists
CO 1003 Fund of Public Speaking	CO 1013 Intro to Communication
ST 2113 Introduction to Statistics	MA 2113 Intro to Stats or MA 3123 or ST 3123 Intro to Stats Inference (All require C in MA 1313 or ACT math subscore 24)
FO 4463 Forest Hydro & Water Mgt	FO 4483 Forest Soils (PSS 3303, FO 3012, FO 4123)