COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT Department of Forest Resources and Environmental Conservation Bachelor of Science in Forest Resources and Environmental Conservation Major: Forestry <u>Option: Urban Forestry</u> For Students Graduating in Calendar Year 2020

Minimum credit hours required for graduation is 120. Prerequisites or enrollment restrictions may apply to some courses. Consult the undergraduate course catalog or the timetable of classes.

Degree Core Requirements (21 credits)

Forest Science (9 credits – take all)

_____ FREC 2214 Introduction to Land and Field Measurements (3 credits)

_____ FREC 2314 Forest Biology and Dendrology (2 credits)

FREC 2324 Dendrology Laboratory (1 credit)

_____ FREC 3314 Forest Ecology and Silvics (3 credits)

Geospatial Analysis (3 credits – take all)

FREC 4114 Information Technologies for Natural Resource Management (3 credits)

Environmental Economics (3 credits – take all)

_____ FREC 4014 (NR 4014) Natural Resources Economics (3 credits)

Policy (3 credits – take all)

FREC 4434 Natural Resource Policy (3 credits)

Oral Communication (3 credits – take one)

COMM 2004 Public Speaking (3 credits) or FREC 3524 Environmental Interpretation (3 credits)

Option Requirements (25 credits)

____ CSES 3134 (ENSC 3134) Soils in the Landscape (3 credits)

FREC 2134 (HORT 2134) Plants and Greenspaces in Urban Communities (3 credits)

FREC 3354 (HORT 3354) Trees in the Built Environment (3 credits)

FREC 3454 Trees in the Built Environment Lab (1 credit)

FREC 4454 Urban Forest Management and Policy (3 credit)

FREC 4514 Forest and Tree Pests (3 credits)

Geospatial Analysis Elective (3 credits - take one)

FREC 4214 Forest Photogrammetry and Spatial Data Processing (3 credits)

GEOG 4354 (GEOS 4354) Introduction to Remote Sensing (3 credits)

Physical Science Elective (3 credits - take one)

BIOL 1106 Principles of Biology (3 credits)

_____BIOL 2304 (HORT 2304) Plant Biology (3 credits)

CHEM 1036 General Chemistry (3 credits)

GEOS 1004 Physical Geology (3 credits)

Woody Plant Identification Elective (3 credits – take one)

HORT 3325 Woody Landscape Plants (3 credits)

HORT 3326 Woody Landscape Plants (3 credits)

Restricted Electives (21 credits – see accompanying lists)	
Advanced Forestry and Environmental Science Restricted Elect	ive (6 credits)
Applied Plant Sciences Restricted Elective (6 credits)	
Policy, Planning, and Business Restricted Elective (9 credits)	
CLE Requirements (36 credits)	
Area 1: Writing and Discourse (6 credits)	
ENGL 1105 First-Year Writing (3 credits)	
ENGL 1106 First-Year Writing (3 credits)	
Area 2: Ideas, Cultural Traditions, and Values (6 credits)	
FREC 2554 (LAR 2554, NR 2554) Leadership for Global Susta	ainability (3 credits)
CLE Area 2 course:	
Area 3: Society and Human Behavior (6 credits)	
AAEC 1005 Economics of the Food & Fiber System or ECON	2005 Principles of Economics
(3 credits)	2005 I miciples of Economics
CLE Area 3 course:	(3 credits)
	,
Area 4: Scientific Reasoning and Discovery (8 credits)	
BIOL 1105 Principles of Biology (3 credits)	
BIOL 1115 Principles of Biology Lab (1 credit)	
CHEM 1035 General Chemistry (3 credits)	
CHEM 1045 General Chemistry Lab (1 credit)	
Area 5: Quantitative and Symbolic Reasoning (6 credits)	
MATH 1025 Elementary Calculus (3 credits)	
MATH 1026 Elementary Calculus (3 credits)	
Area 6: Creativity and Aesthetic Experience (1 credit)	
CLE Area 6 course:	(1 credit)
Area 7: Critical Issues in a Global Context (3 credits)	
CLE Area 7 course:	(3 credits)
Free Electives (17 credits)	
Free Electives (17 creuits)	
	an an ann an

Restricted Electives (21 credits - see lists below)

CSES4774(ENSC 4774) Reclamation of Drastically Disturbed Lands3ENSC3644(CSES 3644) Plants for Environmental Restoration3FIW2114Principles of Fisheries and Wildlife (CLE 7)3FREC2514Wildland Fire: Ecology and Management3FREC3124Forest Biometrics3FREC3124Forest Biometrics3FREC3544Outdoor Recreation Management3FREC3544Outdoor Recreation Management3FREC4334Agroforestry3FREC4344Forest Soil and Watershed Management3FREC4344Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3FREC2564Turfgrass Management3ENC2254HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2154Landscape Practicum1HORT4614Ornamental Plant Production & Marketing3HORT4614Ornamental Restricted Electives(Choose 9 credits)AAEC314Environmental Law (CLE 7)3AAEC314Environmental Law3PWS404Plant problogy3PWS404Plant problogy3PWS314Environmental Law3Got 2344 <t< th=""><th>Advanced Fo</th><th>restry and Environmental Science Restricted Electives</th><th>(Choose 6 credits)</th></t<>	Advanced Fo	restry and Environmental Science Restricted Electives	(Choose 6 credits)
FIW2114Principles of Fisheries and Wildlife (CLE 7)3FREC2514Wildland Fire: Ecology and Management3FREC3214Forest Biometrics3FREC3244Silviculture Principles and Applications4FREC3544Outdoor Recreation Management3FREC334Agroforestry3FREC4354Forest Soil and Water Quality Monitoring3FREC4354Forest Soil and Watershed Management3FREC4354Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3FREC2564Turfgrass Management3CSES2564Turfgrass Management3ENC2254(HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2154Landscape Practicum1HORT414Ornamental Plant Production & Marketing3HORT4244Plant Propagation3HORT414Plant Establishment & Environmental Design3PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC314Environmental Law (CLE 7)3AAEC314Environmental CLE 7)3AAEC314Intory of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MCT </td <td>CSES 4774</td> <td>(ENSC 4774) Reclamation of Drastically Disturbed Lands</td> <td>3</td>	CSES 4774	(ENSC 4774) Reclamation of Drastically Disturbed Lands	3
FIW2114Principles of Fisheries and Wildlife (CLE 7)3FREC2514Wildland Fire: Ecology and Management3FREC3214Forest Biometrics3FREC3244Silviculture Principles and Applications4FREC3544Outdoor Recreation Management3FREC334Agroforestry3FREC4354Forest Soil and Water Quality Monitoring3FREC4354Forest Soil and Watershed Management3FREC4354Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3FREC2564Turfgrass Management3CSES2564Turfgrass Management3ENC2254(HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2154Landscape Practicum1HORT414Ornamental Plant Production & Marketing3HORT4244Plant Propagation3HORT414Plant Establishment & Environmental Design3PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC314Environmental Law (CLE 7)3AAEC314Environmental CLE 7)3AAEC314Intory of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MCT </td <td>ENSC 3644</td> <td></td> <td>3</td>	ENSC 3644		3
FREC2514Wildland Fire: Ecology and Management3FREC3214Forest Biometrics3FREC3244Silviculture Principles and Applications4FREC3544Outdoor Recreation Management3FREC3344Agroforestry3FREC4334Agroforestry3FREC4374Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3Applied Plant Sciences Restricted Electives(Choose 6 credits)CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 3584Landscape Practicum1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Patabolgy3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3JAR 2XXX Any 2000-level course or higher3MGT 3304Management3JCI 3344(UAP 3344) Global Environmental Issues3JCI 3344(UAP 3344) Global Environmental Issues3JCAP2044	FIW 2114		
FREC3324Silviculture Principles and Applications4FREC3544Outdoor Recreation Management3FREC3754Watersheds and Water Quality Monitoring3FREC4334Agroforestry3FREC4354Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2554(HORT 2554) Arboriculture Field Skills1HORT154(SPAN 2154) Spanish for the Green Industry3HORT2154Spanish for the Green Industry3HORT154Landscape Practicum1HORT 414Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PWS4104Plant Pathology3PWS4104Plant Pathology3PWS4104Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC314Environmental Law (CLE 7)3AAEC314Intervinonmental Law (CLE 3)3ILAR2XXXAny 2000-level course or higher3MGT304Management3MGT304Management3MGT3144(UAP 3344) Global Environmental Issues3	FREC 2514	Wildland Fire: Ecology and Management	
FREC3544Outdoor Recreation Management3FREC3754Watersheds and Water Quality Monitoring3FREC4354Agroforestry3FREC4354Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 3584Landscape Practicum1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PPWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3MGT 3304Management Theory and Leadership Practice3MGT 3104Marketing Management3SCI 3344(UAP 3344) Global Environmental Issues3PSCI 3344(UAP 3344) Global Environmental Issues3UAP2004(REAL 2004) Principles of Real Estate3UAP2004(REAL 2004) Principle	FREC 3214	Forest Biometrics	3
FREC3544Outdoor Recreation Management3FREC3754Watersheds and Water Quality Monitoring3FREC4354Agroforestry3FREC4354Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3FREC4374Forest Soil and Watershed Management3CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 3584Landscape Practicum1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PPWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3MGT 3304Management Theory and Leadership Practice3MGT 3104Marketing Management3SCI 3344(UAP 3344) Global Environmental Issues3PSCI 3344(UAP 3344) Global Environmental Issues3UAP2004(REAL 2004) Principles of Real Estate3UAP2004(REAL 2004) Principle	FREC 3324	Silviculture Principles and Applications	4
FREC33FREC4334Agroforestry3FREC4354Forest Soil and Watershed Management3FREC4374Forested Wetlands3Applied Plant Sciences Restricted Electives(Choose 6 credits)CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT3244Plant Propagation3HORT 4744Plant Propagation3HORT 4744Plant Pathology3PPWS4104Plant Establishment & Environmental Design3PPWS4104Plant Pathology3PPWS404Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC314Environmental Law (CLE 7)3AAEC334Management3HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3144(LAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urban Public Issues (CLE 3)3UAP2014Urban Public Administration3 <td< td=""><td>FREC 3544</td><td></td><td>3</td></td<>	FREC 3544		3
FREC4354Forest Soil and Watershed Management3FREC4374Forested Wetlands3Applied Plant Sciences Restricted Electives(Choose 6 credits)CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 244Plant Propagation3HORT 4744Plant Propagation3HORT 4744Plant Production & Marketing3PWS 4104Plant tastablishment & Environmental Design3PWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 3314Environd American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT 3304Maragement3PSCI 3424State and Local Governmental Issues3PSCI 3424Urban Public Issues (CLE 3)3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP 2004Wateting Management3UAP 2014Urban Public Issues (CLE 3)3UAP2014Urban Public Administration3UAP 4344Law of Critical Environmental Areas3	FREC 3754	Watersheds and Water Quality Monitoring	3
FREC4354Forest Soil and Watershed Management3FREC4374Forested Wetlands3Applied Plant Sciences Restricted Electives(Choose 6 credits)CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 244Plant Propagation3HORT 4744Plant Propagation3HORT 4744Plant Production & Marketing3PWS 4104Plant tastablishment & Environmental Design3PWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 3314Environd American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT 3304Maragement3PSCI 3424State and Local Governmental Issues3PSCI 3424Urban Public Issues (CLE 3)3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP 2004Wateting Management3UAP 2014Urban Public Issues (CLE 3)3UAP2014Urban Public Administration3UAP 4344Law of Critical Environmental Areas3	FREC 4334	Agroforestry	3
FREC4374Forested Wetlands3Applied Plant Sciences Restricted Electives(Choose 6 credits)CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 2244Plant Propagation1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR2XXX Any 2000-level course or higher3MGT 304Management3PSCI 3344(UAP 3344) Global Environmental Issues3PSCI 3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP2044UcSI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	FREC 4354	Forest Soil and Watershed Management	
CSES2564Turfgrass Management3ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2244Plant Propagation3HORT3584Landscape Practicum1HORT4614Ornamental Plant Production & Marketing3HORT4744Plant Establishment & Environmental Design3PPWS4004Biological Invasions4Policy. Planning, and Business Restricted Electives(Choose 9 credits)AAEC3114Environmental Law (CLE 7)3AAEC3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT304Management3PSCI344(UAP 3344) Global Environmental Issues3PSCI344Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanzation and Development (CLE 3)3UAP2014Urbanization and Development (CLE 3)3UAP4344Law of Critical Environmental Areas3	FREC 4374		
ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2244Plant Propagation3HORT3584Landscape Practicum1HORT4614Ornamental Plant Production & Marketing3HORT4744Plant Establishment & Environmental Design3PWS4104Plant Pathology3PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC3314Environmental Law (CLE 7)3AAEC314Environmental Law (CLE 7)3AAEC4156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT304Management3PSCI344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	Applied Plan	Sciences Restricted Electives	(Choose 6 credits)
ENT4254Insect Pest Management3FREC2254(HORT 2554) Arboriculture Field Skills1HORT2154(SPAN 2154) Spanish for the Green Industry3HORT2244Plant Propagation3HORT3584Landscape Practicum1HORT4614Ornamental Plant Production & Marketing3HORT4744Plant Establishment & Environmental Design3PWS4104Plant Pathology3PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC3314Environmental Law (CLE 7)3AAEC314Environmental Law (CLE 7)3AAEC4156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT304Management3PSCI344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	CSES 2564	Turfgrass Management	3
HORT 2154(SPAN 2154) Spanish for the Green Industry3HORT 2244Plant Propagation3HORT 3584Landscape Practicum1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR 2XXXAny 2000-level course or higher3MGT 3104Maragement Theory and Leadership Practice3MKTG 3104Marketing Management3PSCI 3424State and Local Government3UAP 1024Urban Public Issues (CLE 3)3UAP 2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP 3434Law of Critical Environmental Areas3	ENT 4254		
HORT 2244Plant Propagation3HORT 3584Landscape Practicum1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PPWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR 2XXX Any 2000-level course or higher3MGT 3004Maragement Theory and Leadership Practice3MKTG 3104Marketing Management3PSCI 3424State and Local Government3UAP 1024Urban Public Issues (CLE 3)3UAP 2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP 4344Law of Critical Environmental Areas3	FREC 2254	(HORT 2554) Arboriculture Field Skills	1
HORT 3584Landscape Practicum1HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PPWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR 2XXXAny 2000-level course or higher3MGT 3304Management Theory and Leadership Practice3MKTG 3104Marketing Management3PSCI 3344(UAP 3344) Global Environmental Issues3PSCI 3424State and Local Government3UAP 1024Urban Public Issues (CLE 3)3UAP 2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP 3434(PSCI 3434) Public Administration3UAP 4344Law of Critical Environmental Areas3	HORT 2154	(SPAN 2154) Spanish for the Green Industry	3
HORT 4614Ornamental Plant Production & Marketing3HORT 4744Plant Establishment & Environmental Design3PPWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR 2XXXAny 2000-level course or higher3MGT 3304Management Theory and Leadership Practice3MKTG 3104Marketing Management3PSCI 3344(UAP 3344) Global Environmental Issues3PSCI 3424State and Local Government3UAP 1024Urban Public Issues (CLE 3)3UAP 2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP 3434(PSCI 3434) Public Administration3UAP 4344Law of Critical Environmental Areas3	HORT 2244	Plant Propagation	3
HORT 4744Plant Establishment & Environmental Design3PPWS4104Plant Pathology3PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC3314Environmental Law (CLE 7)3AAEC4754Real Estate Law3GEOG3244The U.S. City3HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	HORT 3584	Landscape Practicum	1
PPWS 4104Plant Pathology3PPWS 4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC 3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR 2XXXAny 2000-level course or higher3MGT 3304Management Theory and Leadership Practice3MKTG 3104Marketing Management3PSCI 3344(UAP 3344) Global Environmental Issues3PSCI 3424State and Local Government3UAP 1024Urban Public Issues (CLE 3)3UAP 2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP 3434(PSCI 3434) Public Administration3UAP 4344Law of Critical Environmental Areas3	HORT 4614	Ornamental Plant Production & Marketing	3
PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG3244The U.S. City3HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3424State and Local Governmental Issues3VAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	HORT 4744	Plant Establishment & Environmental Design	3
PPWS4604Biological Invasions4Policy, Planning, and Business Restricted Electives(Choose 9 credits)AAEC3314Environmental Law (CLE 7)3AAEC 4754Real Estate Law3GEOG3244The U.S. City3HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	PPWS 4104	Plant Pathology	3
AAEC3314Environmental Law (CLE 7)3AAEC4754Real Estate Law3GEOG3244The U.S. City3HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	PPWS 4604	Biological Invasions	4
AAEC 4754Real Estate Law3GEOG 3244The U.S. City3HIST 3156History of American Cities II (CLE 3)3LAR 2XXXAny 2000-level course or higher3MGT 3304Management Theory and Leadership Practice3MKTG 3104Marketing Management3PSCI 3344(UAP 3344) Global Environmental Issues3PSCI 3424State and Local Government3UAP 1024Urban Public Issues (CLE 3)3UAP 2004(REAL 2004) Principles of Real Estate3UAP 2014Urbanization and Development (CLE 3)3UAP 3434(PSCI 3434) Public Administration3UAP 4344Law of Critical Environmental Areas3	Policy, Planni	ng, and Business Restricted Electives	(Choose 9 credits)
GEOG3244The U.S. City3HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	AAEC 3314	Environmental Law (CLE 7)	3
HIST3156History of American Cities II (CLE 3)3LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	AAEC 4754	Real Estate Law	3
LAR2XXXAny 2000-level course or higher3MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	GEOG 3244	The U.S. City	3
MGT3304Management Theory and Leadership Practice3MKTG3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	HIST 3156	History of American Cities II (CLE 3)	3
MKTG 3104Marketing Management3PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	LAR 2XXX	K Any 2000-level course or higher	3
PSCI3344(UAP 3344) Global Environmental Issues3PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	MGT 3304	Management Theory and Leadership Practice	3
PSCI3424State and Local Government3UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	MKTG 3104	Marketing Management	3
UAP1024Urban Public Issues (CLE 3)3UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	PSCI 3344	(UAP 3344) Global Environmental Issues	3
UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	PSCI 3424	State and Local Government	3
UAP2004(REAL 2004) Principles of Real Estate3UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3	UAP 1024	Urban Public Issues (CLE 3)	3
UAP2014Urbanization and Development (CLE 3)3UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3			3
UAP3434(PSCI 3434) Public Administration3UAP4344Law of Critical Environmental Areas3			3
UAP 4344 Law of Critical Environmental Areas 3		•	3
			3
		Land Use and Environment	3

NOTICE: Some courses have prerequisites. Please check the Course Catalog for details. IMPORTANT NOTES ON THE FOLLOWING PAGE

URBAN FORESTRY NOTES

- 1. **Satisfactory Progress:** By the end of the semester in which the student has attempted 60 hours (including transfer, advanced placement, advanced standing, and credit by examination), "satisfactory progress" towards a B.S. degree in the College of Natural Resources and Environment will include the following minimum criteria:
 - Having an in-major and overall grade point average (GPA) of at least 2.0.
 - Passing at least 24 semester credits that apply to the Curriculum for Liberal Education (CLE).
 - Passing the following courses or their equivalents:
 - ✓ BIOL 1105, 1115, and CHEM 1035, 1045
 - ✓ One of: BIOL 1106, BIOL/HORT 2304, CHEM 1036, GEOS 1004
 - ✓ and MATH 1026
- 2. Foreign Language Requirement: A sequence of two (2) foreign language courses is required for graduation unless two (2) high school credits of the same foreign language or six (6) transfer credit hours of foreign language have been earned. These credits do not count toward graduation. See catalog section on "Graduation Requirements".
- 3. Policy on Student Exchanges: Studying overseas or at another U.S. university is a wonderful opportunity to enhance your education. However, planning for an exchange should begin at least 9 months prior to leaving. This will allow time to determine what substitutions, if any, will be allowed and time to arrange your schedule at Virginia Tech to ensure that all requirements for graduation are met.
- 4. **In-Major GPA Computation:** In-major GPA computation includes all courses designated as FIW, FREC, GEOG, NR, and SBIO.
- 5. An in-major and overall GPA of at least 2.0 is required for graduation.
- 6. In accordance with university guidelines, courses satisfying degree core requirements may not be double-counted to satisfy other areas of a degree (e.g. CLE).
- 7. Some of the listed courses have prerequisites and some courses must be taken in sequence to satisfy prerequisites. Be sure to consult with the University Catalog or check with your advisor.