

NEW Undergraduate Degree **Ecological Restoration**

Dept of Ecosystem Science and Management



RESTORED

IMPERILED

Ecological restoration is the process of assisting in the recovery of dysfunctional ecosystems in order to provide essential ecosystem goods and services that society depends upon. The primary objective of this Ecological Restoration degree program is to prepare students for a career in ecological restoration, which requires an understanding of the causes of land degradation and strategies for assisting in the recovery of ecosystems that have been damaged, degraded, or destroyed.

For more info please contact Heather Haliburton (hhaliburton@ag.tamu.edu)

ECOR DEGREE REQUIREMENTS

University Core Curriculum Courses 43 SCH

Ecological Restoration Courses 77 SCH

BOTN 101 Botany (3-3) 4-SCH

RENr 205/215 Fundamentals of Ecology and Laboratory (3-3) 4-SCH

RLEM 304 Rangeland Plant Taxonomy (2-6) 4-SCH

or BOTN 301 Taxonomy of Flowering Plants (3-3) 4-SCH

RLEM 303 Agrostology (1-6) 3-SCH

or FRSC 203 Dendrology (2-2). 3-SCH

or HORT 306 Woody Ornamental Plants (2-2). 3-SCH

or HORT 308 Landscape Plant Materials (2-2). 3-SCH

or RLEM 302 Rangeland Plants of North America (2-2). 3-SCH

AGRO 301 Soil Science (3-2) 4-SCH

AGRO 310 Soil Morphology and Interpretation (1-3) 2-SCH

AGRO 405 Soil Microbiology (3-2) 4-SCH

RLEM 301 Range and Forest Watershed Management (2-2) 3-SCH

or RLEM 305 Watershed Analysis and Planning (3-0) 3-SCH

or AGSM 335 Soil and Water Management (2-3) 3-SCH

†† RLEM 315 Vegetation Inventory and Analysis (2-2) 3-SCH

or FRSC 306 Forest Measurements (3-3) 4-SCH

RLEM 317 Rangeland Vegetation Manipulation (2-0) 2-SCH

RLEM 440 Wetland Delineation (2-3) 3-SCH

RLEM 316 Rangeland Communities and Ecosystems (2-2) 3-SCH

or FRSC 304 Forest Ecology (3-0) 3-SCH

WFSC 428 Wetland Ecosystem Management (3-3) 4-SCH

FRSC 305 Silviculture (3-3) 4-SCH

RLEM 103 Introduction to Ecological Restoration (1-0)

RLEM 320 Landscape Restoration (2-0)

RLEM 321 Field Studies in Ecological Restoration (0-1)

RLEM 420 Ecological Restoration of Wetlands and Riparian Systems (2-2)

WFSC 489 Wildlife Restoration (2-3)

†† RLEM 430 Advanced Restoration Ecology (3-0)

FRSC 398/GEOG 398 Interpretation of Aerial Photographs (2-3)

or RENr 444 Remote Sensing in Renewable Nat. Res. (2-3)

or GEOG 361 Remote Sensing in Geosciences (3-2)

RENr 405 GIS for Environmental Problem Solving (2-2)

or FRSC 461 GIS for Natural Resource Management (2-2)

or GEOG 390 Principles of Geographic Infor. Systems (2-2)

or LAND 461 GIS Application in Resource Management (2-4)

RENr 470 Environmental Impact Assessment (3-0)

or RENr 420 Natural Resource Law (3-0)

or †† FRSC 406 Forest Policy (3-0)

or PHIL 314 Environmental Ethics (3-0)

or WFSC 303 Fish and Wildlife Laws and Administration (3-0)

or AGECE 350 Environmental Resource Economics (3-0)

RLEM 484 Internship

Free Electives 3-4

TOTAL HOURS: 120

† courses can be used to satisfy the international and cultural diversity requirement.

†† Writing intensive course.

