FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—NEW COURSE PROPOSAL

UGPC APPROVAL _____
UFS APPROVAL _____
SCNS SUBMITTAL _____
CONFIRMED _____
BANNER POSTED _____
CATALOG _____

DEPARTMENT NAME: GEOSCIENCES | **COLLEGE OF: SCIENCE**

RECOMMENDED COURSE IDENTIFICATION:

PREFIX _EVR_____ **COURSE NUMBER** _6351_____ **LAB CODE** (L or C) _____

(***TO OBTAIN A COURSE NUMBER, CONTACT MJENNING@FAU.EDU***)

COMPLETE COURSE TITLE: RESTORATION IMPLEMENTATION AND MANAGEMENT

EFFECTIVE DATE
(first term course will be offered)
_____

CREDITS: 3

TEXTBOOK INFORMATION: NO TEXTBOOK REQUIRED.

GRADING ***(SELECT ONLY ONE GRADING OPTION)***: **REGULAR** __X___ **PASS/FAIL** _____ **SATISFACTORY/UNSATISFACTORY** _____

COURSE DESCRIPTION, NO MORE THAN 3 LINES: The social and collaborative nature of restoration projects requires the approval of multiple government agencies, and cooperation of affected landowners and stakeholders at every phase of project selection, planning and implementation. This course will cover the legal aspects of government approval, creating communication plans for coalition building and collaboration with stakeholders, conflict resolution, and ethics in restoration. The course will use a combination of discussion of academic literature, lecture, case studies of various restoration project types and scales, and guest speakers that include representatives from state and federal agencies, consulting firms, and non-governmental organizations.

PREREQUISITES: N/A | **COREQUISITES: N/A** | **OTHER REGISTRATION CONTROLS (MAJOR, COLLEGE, LEVEL): N/A**

PREREQUISITES, COREQUISITES & REGISTRATION CONTROLS SHOWN ABOVE WILL BE ENFORCED FOR ALL COURSE SECTIONS.

MINIMUM QUALIFICATIONS NEEDED TO TEACH THIS COURSE: PH.D. IN BIOGEOGRAPHY, BIOLOGY, OR ECOLOGY.

Other departments, colleges that might be affected by the new course must be consulted. List entities that have been consulted and attach written comments from each.

_Scott Markwith, smarkwit@fau.edu, 561-297-2102_____
Faculty Contact, Email, Complete Phone Number

SIGNATURES

Approved by:	***Date:***
Department Chair: _____	_____
College Curriculum Chair: _____	_____
College Dean: _____	_____
UGPC Chair: _____	_____
Dean of the Graduate College: _____	_____

SUPPORTING MATERIALS

Syllabus—must include all details as shown in the UGPC Guidelines.

Written Consent—required from all departments affected.

Go to: *http://graduate.fau.edu/gpc/* to download this form and guidelines to fill out the form.

Email this form and syllabus to *diamond@fau.edu* and *eqirjo@fau.edu* one week ***before*** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website by committee members prior to the meeting.

Course name: Restoration Implementation and Management
Course number: EVR 6351
Time and Place: TBD, PS 337

Instructor: Scott Markwith
Office number: PS 344
Telephone: 561-297-2102
E-mail: smarkwit@fau.edu (this is preferred form of contact)
Office hours: TBD, also available by appointment.

Course web-site: This course will utilize Blackboard (http://bb.fau.edu) for material and information dissemination, and grade posting.

Text: There is no required text for this course. Readings will be posted on Blackboard at least a week prior to the date of discussion.

Supplementary texts (not required):

Clewell, A. F. and Aronson, J. 2008. Ecological Restoration: Principles, Values, and Structure of an Emerging Profession. Island Press.

Aronson, J., Milton, S., and Blignaut, J. (eds.) 2007. Restoring Natural Capital: Science, Business, and Practice. Island Press.

Course Description: The social and collaborative nature of restoration projects requires the approval of multiple government agencies, and cooperation of affected landowners and stakeholders at every phase of project selection, planning and implementation. This course will cover the legal aspects of government approval, creating communication plans for coalition building and collaboration with stakeholders, conflict resolution, and ethics in restoration. The course will use a combination of discussion of academic literature, lecture, case studies of various restoration project types and scales, and guest speakers that include representatives from state and federal agencies, consulting firms, and non-governmental organizations.

Course Goals: By the end of this course, students will:

- **a.** Comprehend and recall the various legal, political, ethical, conflict resolution, and stake holder influences on restoration decision making and implementation.
- **b.** Apply knowledge from this course in future restoration/natural resource management and/or research situations concerning ecological restoration.
- **c.** Connect the skills learned in this class with the goals of restoration projects and the challenges presented from various directions in order to facilitate successful restoration outcomes.
- **d.** Care about using restoration as a tool for positive anthropogenic actions in the natural world.
- **e.** Think critically about what is 'known' about implementing and managing restoration projects and what we need to examine more closely to successfully restore degraded ecosystems and; and learn how to find more information about these practices and processes after this course is complete.

Method of instruction: The course will use a mixture of lecture; open discussion of articles from the academic literature; case studies restoration projects in South Florida; and guest speakers with various categories of restoration experience.

Assessment procedures and Assignments:
Discussion: Each student is required to lead class discussion (1 or 2 times depending on class size). Be prepared to stimulate conversation and have thought provoking analysis and questions to pose to the class concerning the reading. A written summary of their questions and important points must be turned in at the beginning of the discussion.

Term Paper and Presentation: Each student is required to write and a plan for a restoration project that identifies and addresses the legal, regulatory, and ethical issues and challenges, develops a communication and outreach plan to obtain cooperation of potential stakeholders, and anticipates conflicts and proposes options for resolution. Students must show that no restoration plan currently exists. Students must present their plan to the class in a formal 15 minute Powerpoint presentation.

Grading and Evaluation	**% of Final**
Discussion Leadership/Participation	30%
Term Paper	40%
Presentation	30%

Grading criteria: The following is the grading scale for the course:

A	91-100	B	81-86	C	71-76	D	61-66
A-	90	B-	80	C-	70	D-	60
B+	87-89	C+	77-79	D+	67-69	F	<60

Extra credit: Extra credit is not accepted in this course.

Policy on make-up assignments and late work: Missed in class assignments, such as discussion leadership, will be excused with proper documentation. Missed presentations will be rescheduled with proper documentation. Papers will only be accepted late in case of a documented emergency.

Academic integrity: Students are responsible for informing themselves about the Honor Code standards before performing any academic work. The link to more detailed information about academic honesty can be found at: http://www.fau.edu/regulations/chapter4/4.001_Honor_Code.pdf

Scholastic dishonesty includes, among other things: plagiarism, copying other's work during a test, and using notes during a test. The instructor reserves the right to use the Turn-it-in service to check all written work for plagiarism. Any test or written assignment for which you are caught cheating will be marked as a zero grade, and the incident will be reported in accordance with Honor Code regulations.

Classroom etiquette: Turn off all cell phones and other electronic devices prior to class. There will be plenty of interaction in the class with each other and the instructor, and please feel free to ask questions at any time and participate in discussion, but do not chat during class.

Students with disabilities: In compliance with the Americans with Disabilities Act (ADA), students who require special accommodations due to a disability affecting execution of coursework must register with the Office of Students with Disabilities (OSD) located in Boca in the SU, room 133 (561-297-3880) or in Davie in MD I (954-236-1222), and follow all OSD procedures.

Tentative Schedule: The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

Week	Topic
1	Syllabus; Introduction to Restoration Lecture
2	Planning Restoration, Lecture
3	Article Discussion, Planning Restoration
4	Federal Legal Code and Regulations Lecture
5	Guest Speaker
6	State Legal Code and Local Ordinances Lecture
7	Guest Speaker
8	Identifying Stakeholders and Communications Lecture
9	Article Discussion, Stakeholders and Restoration
10	Guest Speaker
11	Conflict Resolution Lecture
12	Guest Speaker
13	Ethics in Restoration Lecture
14	Article Discussion, Science, Restoration, and Ethics
15	**Project presentations; Papers Due**

References

Doyle, M. and Drew, C. A. (eds.) 2008. Large Scale Ecosystem Restoration: Five Case Studies From the United States.

Clewell, A. F. and Aronson, J. 2008. Ecological Restoration: Principles, Values, and Structure of an Emerging Profession.

Aronson, J., Milton, S., and Blignaut, J. (eds.) 2007. Restoring Natural Capital: Science, Business, and Practice.

Darabaris, J. 2006. Macroengineering: An Environmental Restoration Management Process. CRC Press, 232 pp.

Arthur A Oyola-Yemaiel, "Towards the formation of a sustainable South Florida: An analysis of conflict resolution and consensus building in the South Florida Everglades Ecosystem Restoration Initiative" (January 1, 1999). *ProQuest ETD Collection for FIU*.Paper AAI9949323. http://digitalcommons.fiu.edu/dissertations/AAI9949323

Extras

Temperton, V. M., Hobbs, R. J., Nuttle, T., and Halle, S. (eds.) 2004. Assembly Rules and Restoration Ecology: Bridging the Gap Between Theory and Practice.

Egan, D. and Howell, E. (eds.) 2005. The Historical Ecology Handbook: A Restorationist's Guide to Reference Ecosystems.

Morrison, M. 2009. Restoring Wildlife: Ecological Concepts and Practical Applications.