FLORIDA ATLANTIC UNIVERSITY™

Graduate Programs—PROGRAM CHANGE REQUEST

UGPC APPROVAL _____

UFS APPROVAL _____

CATALOG _____

DEPARTMENT: ENVIRONMENTAL SCIENCE PROGRAM

COLLEGE: SCIENCE

PROGRAM NAME

RESTORATION CERTIFICATE

EFFECTIVE DATE
(PROVIDE TERM/YEAR)
FALL 2014

PLEASE EXPLAIN THE REQUESTED CHANGE(S) AND OFFER RATIONALE BELOW AND/OR ATTACHED:

THREE CHANGES WERE MADE TO THE RESTORATION CERTIFICATE REQUIREMENTS TO ADJUST TO THE LOSS OF 3 COURSES , (ENV 6668 ENVIRONMENTAL SYSTEMS AND PROCESSES, WHICH IS A CORE CERTIFICATE COURSE, URP 6421 ENVIRONMENTAL PLANNING AND SOCIETY, AND PUP 6208 URBAN ENVIRONMENTAL POLITICS) THAT ARE NO LONGER OFFERED BY THEIR RESPECTIVE DEPARTMENTS. THE FIRST CHANGE IS THAT THE POLICY AND PLANNING FOCAL AREA WAS DROPPED AND THE COURSES URP 6425 AND URP 6429 WERE GROUPED WITH THE ENGINEERING ELECTIVES TO CREATE A NEW ELECTIVE FOCAL AREA CALLED PLANNING AND ENGINEERING, THUS REDUCING THE NUMBER OF ELECTIVE FOCAL AREAS FROM 3 TO 2. SECONDLY, BECAUSE OF THE LOSS OF A CORE COURSE, THE NUMBER OF CORE COURSE CREDITS WAS REDUCED FROM 12 TO 9 AND STUDENTS MUST NOW CHOOSE 2 ELECTIVES COURSES FROM ONE FOCAL AREA AND 1 ELECTIVE COURSE FROM THE OTHER FOCAL AREA. TO COMPENSATE FOR THE LOSS OF THE CORE CREDITS, 3 ADDITIONAL ELECTIVE CREDIT HOURS WERE ADDED TO THE EXISTING 6 REQUIRED ELECTIVE HOURS, FOR A NEW TOTAL OF 9 CREDITS OF ELECTIVES. FINALLY, WORDING WAS CLARIFIED CONCERNING THE REQUIREMENTS FOR THE MANUSCRIPT OF PUBLISHABLE QUALITY, ITS PRESENTATION, AND ASSESSMENT.

Faculty contact, email and complete phone number:	Consult and list departments that might be affected by the change and attach comments.
Dale Gawlik, dgawlik@fau.edu, 561.297.3333	None.

Approved by:	*Date:*
Department Chair: Dale Gawlik Dale Gawlik	4 Dec 2013
College Curriculum Chair:	01/13/2014
College Dean:	1/14/14
UGPC Chair:	1/22/14
Graduate College Dean:	1-29-14
UFS President:	
Provost:	

Environmental Restoration Certificate

The Environmental Sciences Program offers the Environmental Restoration certificate for graduate students who wish to pursue an environmental restoration position upon graduation or for professionals looking to increase their knowledge base, advance professionally or change careers. The certificate is interdisciplinary, drawing on courses from environmental sciences, geosciences, biology, urban and regional planning and civil engineering. The certificate also includes considerable opportunity for experiential learning in the form of course field trips to actual restoration projects; internship opportunities with local, state and federal agencies conducting restoration; and primary research experiences with future, ongoing and recent environmental restoration projects in South Florida. These opportunities also provide the prospect of meeting, networking and interacting with professionals from public and private environmental restoration organizations.

The certificate consists of a minimum of 21 credits, including ~~four~~ three core courses, one internship or DIS resulting in ~~,~~ the completion of a restoration-related project, ~~with a~~ completion of a manuscript of publishable quality ~~paper~~ and colloquium presentation based on the internship/DIS project, and ~~two~~ three electives ~~each~~ chosen from ~~two of the three~~the two elective foci (both elective foci must be represented). All courses must be completed with a grade of "C" or better to be counted toward the certificate.

Core Courses

~~Environmental Systems and Processes~~	~~ENV 6668~~	~~3~~
Environmental Restoration	EVR 6334	3
Restoration Implementation and Management	EVR 6358	3
Conservation Biology	PCB 6045	3

Other Requirements

1. One internship with a public or private restoration organization or DIS focused on environmental restoration research. Internship (preferred) or DIS should be taken under Directed Independent Study (EVS 6905 or GEO 6908) for 3 credits.

2. A final draft of a formal scientific journal style manuscript of publishable quality based upon the restoration-related project completed under the internship or DIS.

3. Present the Internship/DIS-based paper in a 15-minute presentation during the Environmental Science Colloquium (EVS 6920) ~~or Geoscience (GEO 6920) Colloquium~~ courses.

Successful fulfillment of the manuscript and formal presentation will be assessed by a minimum of two of the members of the Restoration Certificate Committee of the Environmental Sciences Program Committee, or their designees.

Elective Foci (Choose a total of ~~two~~ three electives, ~~each from different foci~~one from one elective focus area and two from the other focus area)

Ecology Electives		
Flora of South Florida and Flora of South Florida Laboratory	BOT 5155 and BOT 5155L	4
Coastal Plant Ecology and Coastal Plant Ecology Lab	BOT 6606 and BOT 6606L	4
Biogeography	GEO 5305	3
Coastal Environments	GLY 6737	3
Advanced Ecology	PCB 6046	3
Freshwater Ecology and Freshwater Ecology Laboratory and Field Studies	PCB 6307 and PCB 6307L	5
Marine Ecology and Marine Ecology Laboratory and Field Studies	PCB 6317 and PCB 6317L	5
Ecological Theory	PCB 6406	3
Environmental Physiology	PCB 6749C	4

~~Policy and Planning Electives~~		
~~Urban Environmental Politics~~	~~PUP 6208~~	~~3~~
~~Environmental Planning and Society~~	~~URP 6421~~	~~3~~
~~Environmental Analysis in Planning~~	~~URP 6425~~	~~3~~
~~Environmental Policy and Programs~~	~~URP 6429~~	~~3~~

Planning and Engineering Electives		
Environmental Analysis in Planning	URP 6425	3
Environmental Policy and Programs	URP 6429	3
Soil Stabilization and Geosynthetics	CEG 6124	3
Open-Channel Hydraulics	CWR 6235	3
River Mechanics and Sediment Transport	CWR 6236	3
Stream, Lake and Estuarine Pollution	EES 6357	3
Contamination of Aquatic Sediment	ENV 6441	3
Shore Erosion and Protection	GLY 5575C	3