

# Memorandum

**To:** University Program Committee

**From:** Dale Gawlik, Director, Environmental Science Program

**Subject:** Catalog changes for the Certificate in Environmental Sciences

**Date:** 21 March 2014

This memo requests approval for making the following changes below to the Certificate in Environmental Sciences. These changes were approved by the Environmental Sciences Program Committee on 20 March 2014. The requested changes are to:

1. **Change the name of the Environmental Sciences Certificate from the plural “Sciences” to singular “Science”** This change is needed to be consistent with a recent change in the name of the FAU Environmental Science Program (approval pending), to be consistent with a national trend in naming of environmental programs, and to better reflect the interdisciplinary nature of the certificate.
2. **Add a statistics category to the core requirements.** The field of environmental science is becoming increasingly quantitative and data-driven. This core area is needed to ensure that FAU students are exposed to statistics in the course of getting their certificate regardless of whether it is required for their major.
3. **Add a capstone course, Critical Thinking in Environmental Science (EVS 4021) to the core requirements** (seeking simultaneous approval for EVS 4021 as a new course). Previously students pursuing an environmental sciences certificate took one of two required courses but there was no capstone course on which to base an assessment. EVS 4021 is an existing course in the state university system.
4. **Reduce the required number of courses from the focal areas.** This change is needed to accommodate the addition of statistics and capstone courses to the core without changing the total credits required for the certificate.
5. **Add Global Environmental Politics and Policies (INR 4350) to the list of electives in the Human-Environmental Interactions focal area.** This course, offered through the Dorothy F. Schmidt College of Arts and Letters, will strengthen the human side of the course offerings in the Human-Environmental Interactions focal area.
6. **Add Justice, Health, and the Environment (SYD 4513) to the list of electives in the Human-Environmental Interactions focal area.** This course, offered through the Dorothy F. Schmidt College of Arts and Letters, will strengthen the human side of course offerings in the Human-Environmental Interactions focal area.

The specific requested changes to the catalog wording are indicated using track changes below.

### Certificate Curriculum and Requirements

The certificate consists of 18 credits. All students must complete the following requirements:

1. All students must take **a minimum of one of the two possible core courses listed below** course from **all three core areas** below

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<b>Core Courses (choose one of the following) Human Environmental Interactions Core (choose one of the following)</b>		
Environment and Society	EVR 2017	3
Issues in Human Ecology	PCB 3352	3

<b>Statistics Core (choose one of the following)</b>		
Introductory Statistics	STA 2023	3
Introduction to Biostatistics	STA 3173	3
Experimental Design and Statistical Inference	PSY 3234	3
Quantitative Methods	GEO 4022	3

<b>Environmental Science Core</b>		
Critical Thinking in Environmental Science	EVS 4021	3

2. Students must take one course from **each three** of the five focus areas listed below. These include Biology, Earth Science, Human-Environmental Interactions, Geographic Information Science and Chemistry.

### Lab Lab

<b>Human-Environmental Interactions (choose one of the following)</b>		
American Environmental History	AMH 3630	3
Culture and Ecology	ANT 3403	3
Environment and Disease	ANT 4463	3
Anthropology of Nature	ANT 4419	3
Primate Behavior	ANT 4552	3
Economic Principles and Policies	ECO 3003	5
Environmental Economics	ECP 4302	3
Human-Environment Interactions in South Florida	GEA 4275	3
Water Resources	GEO 4280C	3
American Cultural Landscape	GEO 4422	3
Tourism and Commercial Recreation	GEO 4542	3
Urban Geography	GEO 4602	3
Field Experience	GEO 4948C	1
Global Environmental Politics and Policies	INR 4350	3
Literature and the Environment	LIT 4434	3

Environmental Ethics	PHI 3640	3
Principles and Methods of Environmental Education	SCE 3442	3
Justice, Health, and the Environment	SYD 4513	3
Planning and Growth Management	URP 3000	3
Sustainable Cities	URP 4403	3
Environmental Planning Methods	URP 4420	3

<b>Approved by:</b>	<b>Date:</b>
Department/Program Chair: <u><i>Fala Dandip</i></u>	<u>21 March 2014</u>
College Curriculum Chair: <u><i>JE Hh</i></u>	<u>9/5/14</u>
College Dean: <u><i>Russell Dy</i></u>	<u>9/5/14</u>
UUPC Chair: <u><i>JE Hh</i></u>	<u>9/5/14</u>
Undergraduate Studies Dean: <u><i>Edward E. Smith</i></u>	<u>9/9/14</u>
UFS President: _____	_____
Provost: _____	_____