



MEMORANDUM

To: Julio Frenk, President

From: Linda L. Neider
Chair, Faculty Senate

Date: January 29, 2021

Subject: Faculty Senate Legislation #2020-40(B) – Name Change and Curriculum Change for the Bachelor of Arts (BA) in Geography TO the BA in Geography and Sustainable Development, College of Arts and Sciences, Department of Geography and Regional Studies


The Faculty Senate, at its January 27, 2021 meeting, had no objections to the approval of the name change and curriculum change for the Bachelor of Arts (BA) in Geography *to* the BA in Geography and Sustainable Development in the College of Arts and Sciences, Department of Geography and Regional Studies. This change will convey modernity and relevance, attract and maintain new students, and become more broadly appealing to current and future undergraduate students.

This legislation is now forwarded to you for your action.

LLN/va/rh

cc: Jeffrey Duerk, Executive Vice President and Provost
Leonidas Bachas, Dean, College of Arts and Sciences
José Maria Cardoso da Silva, Professor

CAPSULE: Faculty Senate Legislation #2020-40(B) – Name Change and Curriculum Change for the Bachelor of Arts (BA) in Geography TO the BA in Geography and Sustainable Development, College of Arts and Sciences, Department of Geography and Regional Studies

APPROVED:  DATE: 2/17/21
(President's Signature)

OFFICE OR INDIVIDUAL TO IMPLEMENT: Leonidas Bachas, Dean, College of Arts and Sciences

EFFECTIVE DATE OF LEGISLATION: IMMEDIATELY
(Pending any further Board of Trustees approval)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

Program Change Request

Date Submitted: 03/09/20 4:25 pm

Viewing: **B.A. in Geography and Sustainable Development : GEOG_AB**

Last approved: 02/20/20 9:21 am

Last edit: 01/11/21 1:41 pm

Changes proposed by: Diana Ter-Ghazaryan (d.terghazaryan)

Catalog Pages Using
this Program
[B.A. in Geography](#)

In Workflow

1. PG Assessment and Accreditation
2. PG GEG UG Director
3. PG GEG Chair
4. PG AS Assoc Dean
5. PG AS UG Sr Assoc Dean
6. PG AS Dean
7. PG University Accreditation
8. PG FS Office for UCC
9. PG University Curriculum Committee
10. PG University Accreditation
11. PG FS Office for GWC
12. PG FS GWC
13. PG Faculty Senate
14. PG FS Office for President
15. PG Registrar

Approval Path

1. 03/09/20 3:54 pm
Jenny Vargas
(j.zwanziger):
Rollback to Initiator
2. 03/20/20 12:12 pm
Patty Murphy
(pxm491): Approved
for PG Assessment
and Accreditation

3. 03/20/20 4:29 pm
Page 2 of 31
Jose Maria Cardoso
da Silva (jxc1446):
Approved for PG
GEG UG Director
4. 03/20/20 4:10 pm
Jose Maria Cardoso
da Silva (jxc1446):
Approved for PG
GEG Chair
5. 03/27/20 7:12 pm
Charles Mallery
(cmallery):
Approved for PG AS
Assoc Dean
6. 05/05/20 1:07 pm
Jennifer Ferriss-Hill
(j.ferrisshill):
Approved for PG AS
UG Sr Assoc Dean
7. 09/01/20 5:59 pm
Leonidas Bachas
(l.bachas):
Approved for PG AS
Dean
8. 09/22/20 3:11 pm
Patty Murphy
(pxm491): Approved
for PG University
Accreditation
9. 09/22/20 3:50 pm
Robyn Hardeman
(rhardeman):
Approved for PG FS
Office for UCC
10. 10/02/20 9:45 am
David Chin (dchin1):
Approved for PG
University
Curriculum
Committee

11. 01/11/21 11:43 am
Patty Murphy
(pxm491): Approved
for PG University
Accreditation

History

1. Feb 20, 2020 by
Patty Murphy
(pxm491)

Please list the authors of this proposal including name, rank/title, program/department, and school.

Proposer(s) Name

Diana Ter-Ghazaryan (on behalf of Dr. Cardoso da Silva)
Lecturer
Department of Geography and Regional Studies

Change Type All Other Changes

Provide a brief
summary of the
change

This is a proposal to rename this academic program, to update program SLOs, and to realign its curriculum. The proposed name of the program is "BA in Geography and Sustainable Development."

Career Undergraduate

Academic Structure

School/ College	Department
College of Arts and Sciences	Geography

Plan Type Major and/or Degree

Who can take this program?

Degree Type Bachelor's

Degree Name Bachelor of Arts

Proposed Plan Code

Plan Name B.A. in Geography **and Sustainable Development**

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Will there be any subcomponents within the program such as concentrations, specializations, thesis/non-thesis options, or tracks?

No

Effective Term Spring 2021

First Term Valid Fall 2020

Program Instruction Mode In Person

Where is the program offered?

Location	Please provide the % of instruction at each location.
Coral Gables Campus	100

Program Length (Years) 4

Total Credits **120** ~~122~~

Areas of Knowledge

People & Society
STEM

To Be Published in the Academic Bulletin

Program Overview

Students who graduate with a BA in Geography and Sustainable Development are trained in methods of geographic inquiry and work to propose solutions that advance sustainable development worldwide.

Overview

Program Mission Statement

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Mission

The **Department of the Department of Geography and Regional Studies Geography (GEG) is seeks to transform lives through education, research and innovation, and service. encourage the rigorous investigation of human-environment interactions, and the analysis of spatial patterns related to societal processes. It reaches across disciplines to draw on a range of methods, theories, and perspectives that help us understand how ideas and structures result from the interaction of space, place and time. Through education, we transform The department's core objective is to foster the lives examination, open discussion, and lively debate of our students, helping them to become professionals and global citizens with outstanding analytical geographic issues among faculty and communication skills, creative abilities, and a sense students from all fields of civic responsibility needed in an increasingly complex society. study, enriching the undergraduate curriculum and the university's academic mission through greater communication across disciplines and colleges. Through research and innovation, we advance the frontiers of geographic knowledge while pursuing solutions to some of society's most pressing challenges. Finally, through service, we support organizations It reaches across disciplines to draw on a range of methods, theories, and agencies (from local to global) perspectives that adopt principles of sustainable development as a way to ensure long-term human prosperity without undermining help us understand how ideas and structures result from the integrity and stability interaction of natural space, place and social systems. time:**

~~Its aim is to broaden, deepen, and transform the learning community at UM and beyond:~~

Program Goals

The BA in Geography and Sustainable Development program aims to graduate students who use methods of geographic inquiry to propose solutions that advance sustainable development worldwide. Compared to the BS in Geography and Sustainable Development, the BA is more flexible, does not require comprehensive knowledge of geospatial technologies, and allows students to pursue other areas of focus within Geography and Sustainable Development. The BA prepares GoalsOur undergraduate programs (BA and BS) aim to prepare students for positions in teaching, government, private business, urban and regional planning, research, and teaching. geographic information systems (GIS), remote sensing (RS), resource management, and environmental analysis. We offer courses that provide students with marketable skills for today's job market, optional tracks in areas such as urban, environmental, and medical geography, sustainable cities, sustainable development, and sustainable food. as well as courses in geospatial technology which provide students with marketable skills for today's job market: geographic information systems (GIS), digital cartography, satellite remote sensing, land use and land cover analysis, and spatial statistics. During their studies, our students develop global citizenship, which prepares them to examine and find solutions for global problems by using with a different analytical lenses and methods, tens, as well as develop skills to work effectively in multi-cultural environments and and collaborative settings.

Student Learning Outcomes

Foundational Knowledge (SLO1): Students will **describe the most fundamental** ~~demonstrate knowledge of~~ concepts and theories in **geography** ~~both human~~ and **sustainable development, physical geography** including the spatial patterns and **processes of human** ~~processes, the interrelationships between people~~ and **physical phenomena, the interactions between people and nature, places,** and **the challenges to conciliate human prosperity and environmental conservation worldwide.** ~~the interactions between people and nature.~~

Scientific Inquiry and Communication Skills (SLO2): Students will **apply various theoretical** ~~integrate~~ and **methodological approaches in geography** ~~apply concepts~~ and **be able** ~~theories~~ to develop **research questions, critically analyze both qualitative** ~~sound~~ and **quantitative data** ~~original geographical questions as well as apply critical thinking~~ to **answer those questions, and effectively communicate their findings in oral and written formats.** ~~find explanations to geographical questions.~~

Knowledge Translation Skills (SLO3): Students will **synthesize geographic knowledge and develop collaborative solutions to problems in sustainable development within the local community, region, and world by demonstrating strong ethical behavior and high levels of responsibility and integrity.**

~~Students will demonstrate effective written, cartographic, and oral communication.~~

Curriculum Requirements

Curriculum Requirements

University General Education Requirements

<u>ENG 105</u>	English Composition I	3
<u>ENG 106</u>	English Composition II	3
<u>MTH 108</u>	Precalculus Mathematics II	3
Arts and Humanities Cognate		9
STEM Cognate		9
Language Requirement		3-9
Minor Requirement		15
Writing Requirement 1		12
Study Abroad (optional)		15
Degree Requirements 2,3		
Select one of the following:		3
GEG 101	Digital Earth	
<u>GEG 105</u>	World Regional Geography	
<u>GEG 110</u>	Introduction to Human Geography	
Required:		
<u>GEG 120</u>	Physical Geography	3

<u>GEG 306</u>	Geographic Research Methods	Page 37 of 34
GEG 331	Sustainable Development	3
<u>GEG 501</u>	Capstone Research Seminar	3
Elective Courses-4		18
Electives 4		15
Additional Electives		18
Total Credit Hours		120

- 1 To satisfy the College of Arts and Sciences writing requirement in the discipline, students majoring in Geography must take at least one writing eligible course in Geography. GEG 501 satisfies this requirement for most students.
- 2 Students must complete at least 30 credit hours in Geography with a grade of C- or higher.
- 3 The overall GPA in courses counted toward the major must be 2.00 or higher.
- 4 The major requires 15 credits of of electives at least 9 of which must be at the 300 level or above, exclusive of GEG 501.

Plan of Study

Suggested Plan of Study

Plan of Study Grid

Year One

Fall	Credit Hours
<u>ENG 105</u> English Composition I	3
<u>MTH 113</u> Finite Mathematics	3
<u>UMX 100</u> The University of Miami Experience	0
GEG 101 Digital Earth	3
GEG 110 Introduction to Human Geography	3
<u>GEG 120</u> Physical Geography	3
Language Course	3
Credit Hours	15

Spring

<u>ENG 106</u> English Composition II	3
<u>GEG 310</u> Geographic Information Systems I	3
Language Course	3
Arts and Humanities Cognate Course	3
General or GEG Elective Course	3
Credit Hours	15

Year Two

Fall	
GEG 305 Statistics for the Social Sciences	3
GEG 331 Sustainable Development	3

Language Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
Arts and Humanities Cognate Course	3
Credit Hours	15
Spring	
<u>GEG 241</u> Health and Medical Geography	3
<u>GEG 306</u> Geographic Research Methods	3
General or GEG Elective Course	3
General or GEG Elective Course	3
Arts and Humanities Cognate Course	3
Credit Hours	15
Year Three	
Fall	
GEG 331 Sustainable Development	3
STEM Cognate Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
Credit Hours	15
Spring	
300 Level GEG Elective	3
STEM Cognate Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
Credit Hours	15
Year Four	
Fall	
300 Level GEG Elective	3
STEM Cognate Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3
Credit Hours	15
Spring	
<u>GEG 501</u> Capstone Research Seminar	3
General or GEG Elective Course	3
General or GEG Elective Course	3
General or GEG Elective Course	3

General or GEG Elective Course	3
Credit Hours	15
Total Credit Hours	120

Rationale

Rationale

This proposed change has two goals. The **first goal** is to realign the name of this academic program with the research and educational agenda of our faculty, who apply geographic concepts and methods to inform policies and practices that advance sustainable development around the world. The **second goal** is to reaffirm the orientation of our curriculum and align it to students' interest in sustainable development and communicate that this academic program is commensurate with the pursuit of their professional goals.

The recent evolution of K-12 education has resulted in increasingly fewer American students understanding what geographers do and what the academic discipline of Geography offers, particularly at the college level. As a consequence, a Geography undergraduate degree is seldom considered as a viable career pathway, despite offering some of the broadest and highest-earning career options across the social and natural sciences. By updating the name of this program to incorporate the term "sustainable development" and adding a course dedicated to sustainable development policies and practices (GEG 331), we will convey modernity and relevance, attract and maintain new students, and become more broadly appealing to current and future undergraduate students and their parents.

Market Demand

Based on a survey of 10% of UM undergraduate students executed by our department, we determined that "sustainability" and "sustainable development" are attractive terms to use in our course names and programs. Our experience also advises us that students choose geography as a major because of the discipline's broad applications, and especially its connections to the emerging field of sustainable development. Connecting the discipline with a field of application, our program will offer students high quality, high impact geographic and sustainable development teaching and research opportunities.

Because of the breadth of knowledge and the analytical methods that geography students acquire during their education, their job outlook is quite promising. According to the American Association of Geographers and the Bureau of Labor Statistics, geographers can work in more than 90 occupations available in multilateral organizations, businesses, governmental agencies, non-profit organizations, and education.

The United States Bureau of Labor Statistics reports that the median annual wage for geographers in 2017 was \$76,860. They also estimate that employment of geographers will grow 7% from 2016 to 2026, about as fast as the average for all occupations.

We believe that, with targeted promotion and marketing, demand for this undergraduate program will increase and be robust for the next several decades.

Relationship to Other Programs

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Because we are just renaming our academic program and realigning its curriculum, no change is necessary in the existing relationships with other programs.

Library Resources Available and Needed to Support the Program

Because we are just renaming this academic program and realigning its curriculum, no additional library resources will be needed. We will continue working with our subject librarians on maintaining acquisition of print resources, digital resources, and geospatial data that students in this program will need.

Laboratory Facilities, Equipment, and Space Available and Needed to Support the Program

Because we are just renaming our academic program and realigning its curriculum, no additional laboratory facilities, equipment, or space will be needed. The Department of Geography and Regional Studies currently oversees the Campo Sano GIS Lab, which is a state-of-the-art facility and can accommodate the expected significant influx of students in this renamed program.

Other Resources Available or Needed to Support the Program

No additional resources needed.

Curriculum

Program Curriculum

Upload Syllabi for Any New Courses

Proposed Schedule of Course Offerings for the First Three Years

CIP Code

Proposed CIP Code

Faculty

Program Directors

Upload CV(s)

Students

Applicant Pool

Enrollment Projections

Administration

Program Administration

Comparison

Peer Comparisons

Documents

Attach Supporting Documentation

[GEG Supporting Documents.pdf](#)

Reviewer

Comments

Leonidas Bachas (l.bachas) (09/01/20 5:59 pm): The Arts and Sciences faculty voted to approve this proposal on April 27, 2020. I support the proposed changes to the BA

Patty Murphy (pxm491) (09/22/20 3:01 pm): As shown in the attached supporting documentation from the Chair, the Geography and Regional Studies department faculty voted to approve the proposed name change on 9/17/2019 and the curricular changes on 2/28/2020.

Patty Murphy (pxm491) (09/22/20 3:08 pm): The proposed change does not represent a significant departure from the currently approved program. Therefore, notification to or approval from SACSCOC is not required.

David Chin (dchin1) (10/02/20 9:45 am): The UCC CONDITIONALLY SUPPORTS the program-change proposal provided that the proponent identifies a multiple-course component of sustainability in the required and elective coursework. Concerns were raised that the only obvious sustainability class in each of these three programs is GEG 331, Sustainable

Development, and having only one class in sustainability would not be sufficient to have this specialty area in the title of the degree or in the title of the minor. It was not clear what other sustainability classes were in the proposed curricula, and whether the program electives would require additional sustainability classes.

Patty Murphy (pxm491) (01/11/21 1:42 pm): A revised matrix is included in the supporting documentation as requested by the UCC as well as a copy of the powerpoint presentation made to the UCC.

UNIVERSITY
OF MIAMI



Department of Geography and Regional Studies
1300 Campo Sano Building
P.O. Box 248067
Coral Gables, FL 33124-4401

March 16, 2020

To: Dr. Leonidas Bachas, Dean, College of Arts and Sciences

From: Dr. José Maria Cardoso da Silva, Professor and Chair,
Department of Geography and Regional Studies

This memo confirms that on September 27, 2019, the faculty of the Department of Geography and Regional Studies voted in support of appending *and Sustainable Development* to the names of the Department's existing BA and BS degrees, as well as the minor in Geography, so that all majors and minors will be named *Geography and Sustainable Development*. In addition, on February 28, 2020, the Department voted to promote slight changes in the core curriculum of these three degrees, such as outlined in the proposal.

Our faculty is committed to promoting globally-relevant education that prepares students for careers that address society's grand challenges. We forward this proposal to you for review by the College of Arts and Sciences faculty.

Sincerely,

Dr. José Maria Cardoso da Silva
Professor and Chair
Department of Geography and Regional Studies



April 9, 2020

Re: Letter of Support for B. A and B.S. in Geography and Sustainable Development—Program renaming and reorientation.

I hereby confirm my support for the proposal submitted by the Department of Geography and Regional Studies for renaming and realigning the B.A. and B.S. programs.

The changes proposed underscore the Department's commitment to sustainability and introduce a projective element, grounding the study of Geography in project-based analysis and problem solving.

Training students to "propose solutions that advance sustainable development worldwide," brings the realigned programs closer to the School of Architecture's own mission and project-based learning, pointing to potential collaboration on joint undergraduate majors that combine analysis and design. I have already discussed such possibilities with Department Chair Jose Maria Cardoso da Silva, including a joint B.S. in Urban Studies/Planning, and will continue to explore synergies that may result from this realignment.

Sincerely yours,

Rodolphe el-Khoury
Dean and Professor of Architecture & Urbanism

Ph: 305-284-5000
Fax: 305-284-5245
www.arc.miami.edu



March 23, 2020

To: Prof. Charles Mallery, Associate Dean for Graduate and
Administrative Services, College of Arts & Sciences

From: Prof. José Maria Cardoso da Silva, Professor and Chair,
Department of Geography and Regional Studies

RE: Proposed GEG degree name changes

Dear Prof. Mallery:

At Professor Ira Sheskin's request, the Geography representative on the CCC, I send this memo to provide additional information on the name changes that we are proposing for the Department of Geography's undergraduate programs.

"Sustainable Development" is most commonly defined as development that meets present needs without compromising the needs of future generations. In other words, sustainable development aims to promote economic prosperity, social inclusion, environmental conservation, and good governance everywhere. Global priorities have been codified in the 17 [Sustainable Development Goals](#) (SDGs) which provide a shared blueprint for future peace and prosperity.

Geography is the study of places and the relationships between people and their environments. Geographers explore both the physical characteristics and human society on the earth's surface. They also examine how human culture interacts with the natural environment and the manner in which locations and places impact people. Geography seeks to understand where things are found, why they are there, how they develop and change over time, and what needs to be done to ensure good living standards for everyone, everywhere.

The longstanding, strong link between Geography and Sustainable Development has been discussed in the academic world for decades (e.g., Purvis and Grainger 2004; Whitehead 2006). In fact, Geography has been considered as the most fundamental discipline for students interested in pursuing careers in Sustainable Development because designing and implementing Sustainable Development Goals requires the core strengths of the discipline of Geography: integrative, place-based thinking at multiple geographic scales. The linkage between Geography and Sustainable Development has been recognized in the US and abroad, as several departments of Geography have formalized research and teaching on Sustainable Development among their major goals (see Table 1 for details). The wave of undergraduate programs that have launched across the country are more likely to be housed in a geography department than any other traditional discipline. We are following national trends and remain the department best equipped to educate young people about sustainable development.

The Department of Geography and Regional Studies at the University of Miami has embraced Sustainable Development as its [unifying research theme](#) for several years. We have been offering courses that are strongly linked to the SDG agenda related to **global health, urbanization, food and water, population dynamics, environmental conservation, and climate change**. No other unit offers comparable breadth and depth related to the SDGs. Our students also receive cutting-edge training in modern geospatial methods and analytical tools that allow them to integrate, visualize, and model socio-environmental issues.

Our department was the first in the College to offer an undergraduate course dedicated to sustainable development. In addition, we have been: (1) mainstreaming and reinforcing the key concepts of sustainable development in the syllabi of our core courses, (2) expanding our elective courses to explore in-depth important components of sustainable development (e.g., Sustainable Food; Sustainable Cities; Biogeography and Conservation; Global Human Rights; Climate Change and Security), and (3) adding new courses that allow the students to explore social problems by using geospatial methods and tools (e.g., GIS for Health and Environment; Crime Mapping and Analysis; GIS and Environmental Modelling). More recently, we collaborated with the College of Architecture to offer a Master in Professional Sciences in Urban Sustainability and Resilience. We are well equipped to offer an innovative, diverse and flexible curriculum to students who are interested in both Geography and Sustainable Development. The student learning outcomes described in the proposals are our commitment to preparing professionals who will tackle the enormous challenges before us.

We hope that this memo provides additional context for the College Curriculum Committee to support the addition of *Sustainable Development* to our Geography degrees with modest changes to our undergraduate curriculum. This is a natural outcome of a process that has evolved for several years. We are happy to provide more information if requested.

Sincerely,

José Maria Cardoso da Silva, Ph.D.
Professor and Chair,
Department of Geography and Regional Studies

References

Purvis, Martin, and Alan Grainger, eds. 2004. Exploring Sustainable Development: Geographical Perspectives. Routledge.

Whitehead, Mark. 2006. Spaces of Sustainability. 1st edition. Routledge.

Attachments

Table 1. Sample Programs in Sustainability or Sustainable Development Administered by Departments of (or Inclusive of) Geography

Table 1. Sample Programs in Sustainability or Sustainable Development Administered by Departments of (or Inclusive of) Geography

There are few examples from high-ranking institutions because the overwhelming majority of private schools, and many high-ranking public schools, do not have geography departments. Among US News' top university rankings, the only top-25 institutions with a geography program are Dartmouth, UCLA, and Berkeley. In the top-50, only 11-12 institutions have geography departments (and half are in CA). A longer list of sustainability and sustainable development degrees are listed [here](#), and while a few are housed in business or ecology programs, etc., many sustainability degrees are organized as interdisciplinary programs. **There is no other discipline that more commonly houses sustainability programs than geography/environment.** So this table should not be interpreted as aspirational peers; rather it speaks volumes about the decisions institutions make—particularly public schools with significant budgetary constraints—when initiating sustainability degrees that yield the biggest “bang for the pedagogical buck.”

Institution	Department	City	Degree
University of Texas Austin	Geography and the Environment	Austin, TX	B.A. Sustainability
University of Oklahoma	Geography and Environmental Sustainability	Norman, OK	B.A./B.S. Environmental Sustainability
University of St. Andrews	Geography and Sustainable Development	St. Andrews, UK	B.Sc. Sustainable Development
University of Iowa	Geographical and Sustainability Sciences	Iowa City, IA	B.S. Sustainability Science
Miami University	Geography	Oxford, OH	B.A. Geography and Sustainable Development
University of Oregon	Geography	Eugene, OR	B.A. Geography – Economy, Environment, & Sustainability
University of British Columbia	Geography	Vancouver, CA	B.A. Environment & Sustainability
University of Massachusetts Amherst	Geography	Amherst, MA	B.A. Geography – Environmental Geography & Sustainability
University of Tennessee Knoxville	Geography	Knoxville, TN	B.A. Sustainability
San Diego State University	Geography	San Diego, CA	B.A. Environment, Sustainability, & Policy
University of Colorado Denver	Geography & Environmental Sciences	Denver, CO	B.A. Environment, Society & Sustainability
Salem State University	Geography and Sustainability	Salem, MA	B.A. and B.S. Geography & Sustainability
University of Texas San Antonio	Political Science and Geography	San Antonio, TX	B.A. Geography and Environmental Sustainability
Western Oregon University	Geography and Sustainability	Monmouth, OR	B.A. Sustainability
University of Northern Colorado	Geography, GIS, and Sustainability	Greeley, CO	B.A. Environmental & Sustainability Studies
Indiana State University	Earth and Environmental Systems (Anthropology, Geography, Geosciences, GIS)	Terre Haute, IN	B.A./B.S. Geography and Sustainability
UNC Greensboro	Geography, Environment, and Sustainability	Greensboro, NC	B.A. Environment & Sustainability
University of Minnesota Duluth	Geography and Philosophy	Duluth, MN	B.A. Environment, Sustainability, & Geography (emphasizing Sustainable Development)
Northern Michigan University	Earth, Environmental, & Geographical Sciences	Marquette, MI	B.A. Environmental Studies & Sustainability
Shippensburg University	Geography and Earth Science	Shippensburg, PA	B.S. Sustainability
SUNY Oneonta	Geography & Environmental Sustainability	Oneonta, NY	B.A. Environmental Sustainability
Ohio University	Geography	Athens, OH	B.A./B.S. Geography – Urban Planning & Sustainability
University of Southern Mississippi	Geography	Hattiesburg, MS	B.S. Geography – Sustainable Development
Slippery Rock University	Geography, Geology, and the Environment	Slippery Rock, PA	B.S. Geography: Environmental Studies and Sustainability
Cal State East Bay	Anthropology, Geography, & Environ. Studies	Hayward, CA	B.S. Geography – Resources and Sustainability
Stephen F. Austin State University	Anthropology, Geography & Sociology	Nacogdoches, TX	B.A. Sustainable Community Development
Pittsburg State University	History, Philosophy, and Social Sciences	Pittsburg, KS	Environmental Geography & Sustainability

Note: FIU's School of Environment, Arts, and Society offers an online B.A. in Sustainability and the Environment (FIU lacks a formal geography department).

Sustainable Development Goals and Geography Courses

The purpose of this document is to show the strong linkage between the thematic courses offered by the Department of Geography and Regional Studies and the UN Sustainable Development Goals (see Table 1)

In addition to these courses, the Department offers several other courses that have students working at the interface between Geography and Sustainable Development (such as GIS, Research Methods, Spatial Statistics). In GIS courses, for example, students are required to work on a semester project, and many choose a topic related to sustainable development.

UNIVERSITY OF MIAMI
ABESS CENTER
for ECOSYSTEM
SCIENCE & POLICY



P.O. Box 248203
Coral Gables, Florida 33124

Phone: 305.284.8259
www.abess.miami.edu

April 2, 2020

Reference: Abess Center support for Geography name change

Greetings,

The Abess Center for Ecosystem Science and Policy and its Faculty Advisory Committee have no major issues re: the GEG name change and support the proposed changes.

Should you need anything further, please let us know. I can be reached at 305.528.6319 or kbroad@rsmas.miami.edu.

Sincerely,

Kenneth Broad, Ph.D.
Director, Abess Center for Ecosystem Science and Policy, University of Miami
Professor, Marine Ecosystems and Society, University of Miami
Co-Director, Center for Research on Environmental Decisions, Columbia University



Antonio Nanni, PhD, PE, FASCE, FACI, FIIFC
Inaugural Senior Scholar
Professor & Chair
Civil, Architectural & Environmental Engineering

1251 Memorial Drive
MEB Room 325
Coral Gables, FL 33146

Ph: 305-284-3461
Fax: 305-284-3492
nanni@miami.edu

To: Leonidas Bachas, Ph.D.
Dean, College of Arts and Sciences

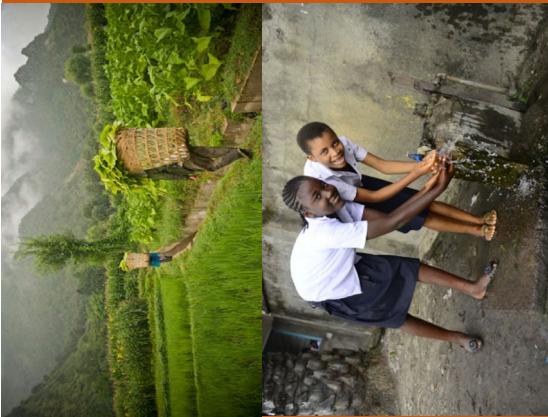
From: Antonio Nanni, CAE Chair

Subject: Rename Undergraduate Geography undergraduate programs

Date: April 1, 2020

This letter confirms the support of the Department of Civil, Architectural and Environmental Engineering (CAE) for the changes in the names of the undergraduate programs offered by the Department of Geography and Regional Studies.

Regards,



Presentation Made to UCC

Geography and Sustainable Development: A Natural Pedagogical Fit

program goals

a global, interdisciplinary toolkit to address the world's biggest challenges



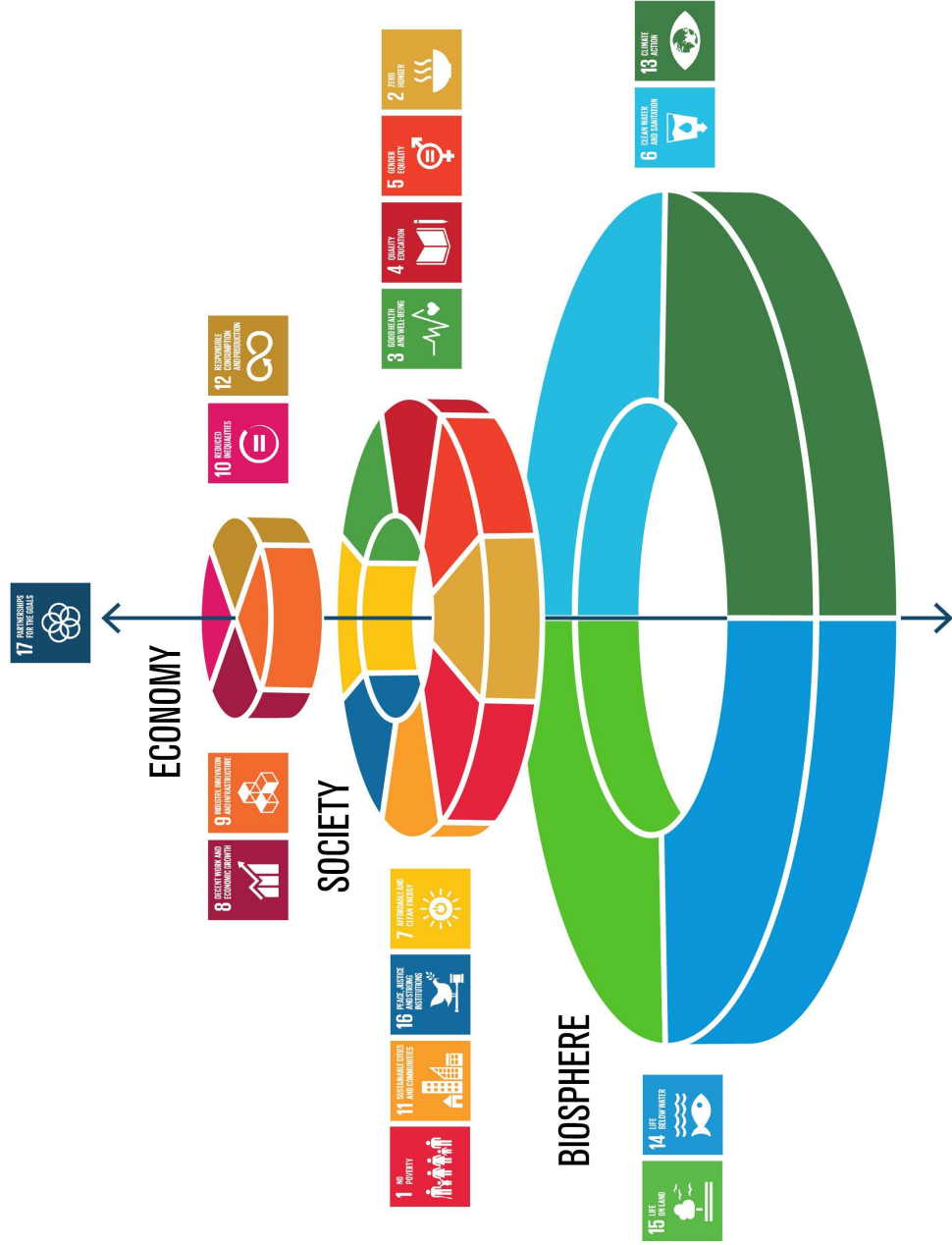
geography and sustainable development



sustainable development



biosphere, society, economy



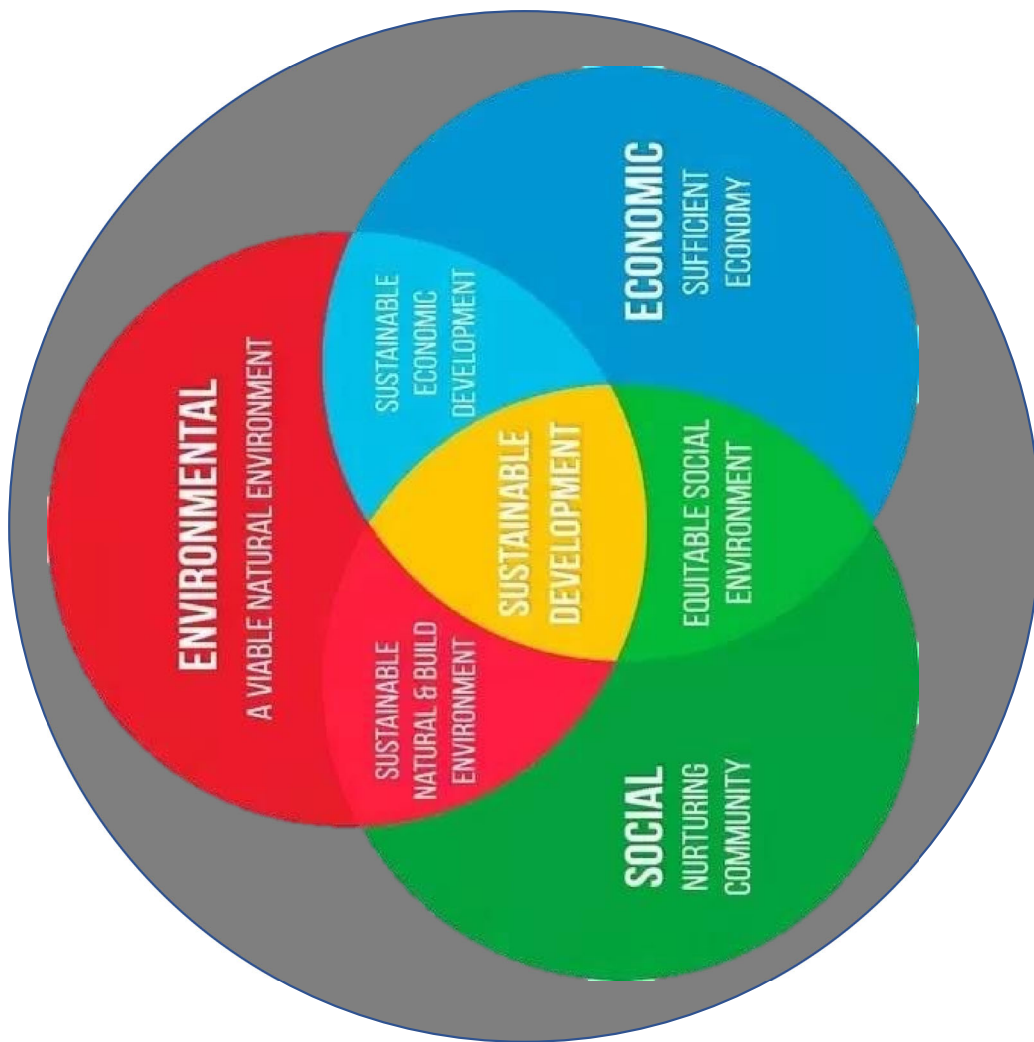
industry, innovation, and infrastructure; reduced inequalities; responsible consumption & production

poverty eradication, social justice, peace, human health, no hunger, sustainable cities, education, gender equality

protect terrestrial & aquatic ecosystems, climate action, water & sanitation, basic earth systems

sustainable development

GOVERNANCE



human-environment interactions, a.k.a. **geography**

- nature
- cities
- geopolitics
- food
- water
- energy
- landscape
- gender
- climate
- health
- planning
- equity

program structure: before feedback

fundamentals

Physical
Geography

Human
Geography

Sustainable
Development

methods

Research
Methods

Capstone

Additional
BS requirements

GIS I & II

Remote
Sensing

electives

Electives:

Statistics, Web GIS, Environmental Modeling, Population, Food, Water, Cities, Climate Change,
Equity, Conservation, Global Health, Natural Hazards...

program structure: revised BA

fundamentals

Physical
Geography

Human
Geography

Sustainable
Development

BA
9+6+12+3=
30 credits

methods

Research
Methods

Capstone

GIS I & II

Remote
Sensing

electives

Electives: Sustainable Development
Population, Food, Water, Cities, Climate
Change, Equity, Conservation, Global
Health, Natural Hazards...

Electives: Methods
Spatial Statistics, Web GIS, Digital
Cartography, Python for GIS, Environmental
Modeling...

program structure: revised BS

fundamentals

Physical
Geography

Human
Geography

Sustainable
Development

BS
9+6+9+12=
36 credits

methods

Research
Methods

Capstone

GIS I & II

Remote
Sensing

electives

Electives: Sustainable Development
Population, Food, Water, Cities, Climate
Change, Equity, Conservation, Global
Health, Natural Hazards...

Electives: Methods
Spatial Statistics, Web GIS, Digital
Cartography, Python for GIS, Environmental
Modeling...

program structure: revised minor

fundamentals

Physical
Geography

Human
Geography

Sustainable
Development

minor
9+6=
15 credits

methods

Research
Methods

Capstone

GIS I & II

Remote
Sensing

electives

Electives: Sustainable Development
Population, Food, Water, Cities, Climate
Change, Equity, Conservation, Global
Health, Natural Hazards...

Electives: Methods
Spatial Statistics, Web GIS, Digital
Cartography, Python for GIS, Environmental
Modeling...



Goal	Course
1 No Poverty	Introduction to Human Geography
2 Zero Hunger	World Regional Geography
3 Good Health and Well-being	Physical Geography
4 Quality Education	Sustainable Development
5 Gender Equality	ELECTIVE COURSES
6 Clean Water and Sanitation	Biogeography and Conservation
7 Affordable and Clean Energy	China in the 21st Century
8 Economic Growth	Cities in Time and Space
9 Industry, Innovation and Infrastructure	Climate Change and Public Health
10 Reduced Inequalities	Climate Change and Security
11 Sustainable Cities and Communities	Climate Change and Extreme Weather
12 Responsible Consumption and Production	Conservation and Development
13 Climate Action	Conservation Biogeography
14 Life Below Water	Crime and the City
15 Life on Land	Crime Mapping and Analysis
16 Peace, Justice and Strong Institutions	Drinking Water: Past, Present, and Future
17 Partnerships for the Goals	Economic Geography
	Environmental Geography
	Geography and Development in Africa
	Geography and Development in South America
	Geopolitics and Peacebuilding
	GIS for Health and Environment
	Global Human Rights
	Global Political Economy
	Hazards and Disasters: the Nature-Society Interface
	Health and Medical Geography
	Immigrant and Refugee Health
	Immigration to the United States
	Metropolitan Miami
	Political Geography of the Middle East
	Population, Health, and Environment
	Population, Sustainability, and the Media
	Seminar in International Development
	Seminar in Urban Geography
	Seminar in Urban Management
	Sustainable Cities
	Sustainable Food Systems
	Urban Sustainability in Asia
	World Urban Geography

We know what students want

What's in a Name? Undergraduate Student Perceptions of Geography, Environment, and Sustainability Key Words and Program Names

Stoler et al. 2020 *Annals of the American Association of Geographers*

Analytics	Environment	Global	Regional
Big Data	Food and Agriculture	Health	Social Media
Cities	Gender	History	Society
Climate Change	Geographic Information Systems (GIS)	Human Rights	Spatial Analysis
Conservation	Geography	Hydrology	Sustainability
Crime	Geomorphology	Immigration	Technology
Culture	Geopolitics	Medical	Transportation
Development	Geoscience	Miami	Urban
Digital		Mobility	Water
Economics		Population	

*Based on 2018-2019 surveys from 4,388 undergraduates across 4 universities (including UM)

other programs at UM

MPS in Urban Sustainability and Resilience

4 core courses (2 GEG + 2 ARC)

12 credits of electives

Initiated by GEG

Undergraduate Certificate in Sustainability

Human Impacts on Natural World (3)

Environmental Politics & Policy (3)

Social Implications (3)

9 credits of electives from 13 departments

**In discussions
with ECS to
rehome to GEG
for better fit**

MS in Sustainable Business

10 Sustainable Business Core Courses (Business School)

9 credits of electives from RSMAS & CAE

a natural fit

geography and sustainable development

geography
methods and
concepts



advance
sustainable
development

a global pedagogical trend and natural home for
sustainable development studies