

# GRADUATE COUNCIL AGENDA

MARCH 21, 2024

1:00 PM

## 110 GRINTER HALL

### I. ACTION ITEMS:

1. Minutes from the February 15, 2024, Graduate Council Meeting (Enclosure 1).

### CERTIFICATES:

2. The College of Public Health and Health Professions seeks to create a graduate certificate in Artificial Intelligence in Public Health and Healthcare (#19118). Dr. George Hack will be present for discussion (Enclosure 2).
3. The College of Design, Construction and Planning seeks to create a graduate certificate in Public Interest Design (#19033). Dr. Sarah Gamble will be present for discussion (Enclosure 3).
4. The Herbert Wertheim College of Engineering seeks to close the graduate certificate in Cell and Tissue Science and Engineering (#19090) (Enclosure 4).

### CONCENTRATIONS:

5. The College of Medicine seeks to participate in the existing interdisciplinary concentration in Clinical and Translational Science for the Doctor of Philosophy (Ph.D.) with a major in Medical Sciences and a concentration in Medical Physics (#19105). Dr. Manuel Arreola will be present for discussion (Enclosure 5).
6. The College of Medicine seeks to create a graduate concentration in Medical Anatomy & Physiology for the Master of Science (M.S.) with a major in Medical Sciences (#19465). Dr. Peter Sayeski will be present for discussion (Enclosure 6).
7. The College of Pharmacy seeks to create a graduate concentration in Managed Care Pharmacy for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences (#19442). Dr. Laura Happe and Ms. Heather Steingraber will be present for discussion (Enclosure 7).
8. The College of Pharmacy seeks to create a graduate concentration in Pharmaceutical Policy for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences (#19443). Dr. Laura Happe and Ms. Heather Steingraber will be present for discussion (Enclosure 8).
9. The College of Pharmacy seeks to create a graduate concentration in Pharmaceutical Value Communications for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences (#19444). Dr. Laura Happe and Ms. Heather Steingraber will be present for discussion (Enclosure 9).
10. The College of Pharmacy seeks to create a graduate concentration in Pharmacoeconomics for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences (#19441). Dr. Laura Happe and Ms. Heather Steingraber will be present for discussion (Enclosure 10).
11. The College of Public Health and Health Professions seeks to modify the curriculum for the Doctor of Philosophy with a major in Public Health and a concentration in Health Services Research (#18771). Dr. George Hack will be present for discussion (Enclosure 11).

## **MAJOR MODIFICATION:**

12. The College of Liberal Arts and Sciences seeks to modify the curriculum for the Master of Sustainable Development Practice (M.D.P.) with a major in Sustainable Development Practice (#19408). Dr. Andrew Noss will be present for discussion (Enclosure 12).

## **IELTS:**

13. The English Language Institute seeks to have IELTS Academic Speaking scores as an additional means of demonstrating ITA English speaking proficiency. Dr. Megan Forbes will be present for discussion (Enclosure 13).

## **2023-2026 BALLOT:**

14. Approval of the ballot for election to Graduate Council 2023-2026

## **II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:**

15. Graduate Curriculum Committee – February Minutes and March Agenda (Enclosure 14).
16. Graduate Programs – Distance or Self-Supporting
17. Graduate Student Success Center
18. The Herbert Wertheim College of Engineering seeks to modify the curriculum for the graduate certificate in Controls Systems (#19426) (Enclosure 15).

## **III. DISCUSSION ITEMS:**

19. The Herbert Wertheim College of Engineering seeks to use cases from Engineering for online/remote Ph.Ds.
20. Certificate policy – In cases in which a program offers a master's program and graduate certificate of the exact same name, should we allow students who are leaving the master's program to be awarded a certificate if they have already completed all the required courses?

# GRADUATE COUNCIL MINUTES

FEBRUARY 15, 2024

1:00 PM

110 GRINTER HALL

Teleconference (Via Zoom)

MEMBERS PRESENT: Dr. Nicole Stedman (Chair), Dr. Linda Bloom, Dr. J.C. Bunch, Dr. James Essegbey, Dr. Hitomi Greenslet, Dr. Kristin Larsen, Dr. Michael Martinez, Dr. Corene Matyas, Dr. Connie Mulligan, Dr. Joni Williams Splett, Kevin Senior (GSC rep), and Jasleen Kaur (GSC alternate)

MEMBERS ABSENT: Dr. K. Ramesh Reddy, Dr. Aner Sela, and Dr. Marta Wayne

GUESTS PRESENT: Dr. Casey Bullock (University Registrar), Dr. Wendell Cropper (College of Agricultural and Life Sciences), Dr. Megan Forbes (English Language Institute), Dr. Paul Gulig (College of Medicine), Diana Hull (Office of the Registrar), Dr. Dmitry Kopelevich (Herbert Wertheim College of Engineering), Dr. Bojan Lazarevic (College of Education), Dr. Maria Leite (Academic Affairs), Dr. Heather McAuslane (College of Agricultural and Life Sciences), Emely McKitrick (College of Pharmacy), Dr. Johnathan Orsini (Office of the Provost/Teaching and Technology), Ethel Porras (UF International Center), Dr. Teresa Roane (College of Pharmacy), Dr. Tobin Shorey (Undergraduate Curriculum Committee), and Ashley Tidwell (Office of Admissions)

STAFF PRESENT: Dr. Tom Kelleher, Gann Enholm, Megan Lewis, Dr. Talline Martins, Hannah Potter, Frankie Tai (Recording), Patty Van Wert, and Stacy Wallace

The meeting was called to order at 1:02 p.m.

Dr. Stedman welcomed everyone to this month's meeting of the Graduate Council and gave a brief summary of the pending proposals to be presented to the Council. (Prior to calling the meeting to order, Dr. Stedman informed everyone that today's Zoom meeting was being recorded.)

## **I. ACTION ITEMS:**

1. Minutes from the January 18, 2024, Graduate Council Meeting. A motion to approve was made, seconded, and passed unanimously.

## **CERTIFICATE:**

2. The College of Agricultural and Life Sciences seeks to modify the curriculum for the graduate certificate in Ecological Restoration (#19137). Dr. Wendell Cropper was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

## **CONCENTRATIONS:**

3. The College of Medicine seeks to create a graduate concentration in Molecular Genetics and Microbiology for the Master of Science (M.S.) with a major in Medical Sciences (#19112). Dr. Paul Gulig was present for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of fall 2024.

4. The College of Pharmacy seeks to change the name of their concentration from Individualized Medicine to Clinical Pharmacogenomics and Precision Medicine and modify the curriculum (#19385). Dr. Teresa Roane and Emely McKittrick were present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

#### **MAJOR MODIFICATION:**

5. The Herbert Wertheim College of Engineering seeks to modify the curriculum for the Master of Science (M.S.) with a major in Chemical Engineering (#18822). Dr. Dmitry Kopelevich was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of fall 2024.

#### **COMBINATION DEGREE:**

6. The College of Education seeks to create a combination degree program between the Bachelor of Arts (B.A.) with a major in Education Sciences and the Master of Education (M.Ed.) with a major in Curriculum and Instruction and a concentration in Educational Technology (#18833). Dr. Bojan Lazarevic was present for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

#### **I-20 AND ADMISSION TIMELINES:**

7. The International Center seeks to formally approve the I-20 Process and Admissions Timing. Ms. Ethel Porras was present (via Zoom) for discussion. It was clarified that this is for new/initial students and not transfers. Transfer students would have technically completed the process and only need to share documentation. A motion to approve was made, seconded, and passed unanimously.

## **II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:**

8. Graduate Curriculum Committee – January Minutes and February Agenda (Enclosure 8).

9. Graduate Programs – Distance or Self-Supporting

The following programs have been approved for self-supporting status by the provost effective Summer 2024:

- Graduate certificate AI in Pharmacy – College of Pharmacy
- Graduate certificate in Forensic Science – College of Pharmacy
- Graduate certificate in Occupational Toxicology – College of Pharmacy
- Graduate certificate in Advanced DNA Technology – College of Pharmacy
- Graduate certificate in Medical Biochemistry – College of Medicine
- MS with a major in Microbiology and Cell Science with a Concentration in Microbiome in Health and Disease – College of Agricultural Medicine

10. Graduate Student Success Center

Dr. Talline Martins was present to share updates.

- Graduate Student Appreciation Week is April 1-5 with Graduate Research Day on April 2.
- A memo for orientation events will be distributed.

## **III. DISCUSSION ITEMS:**

11. Faculty Senate Bylaws

Dr. Kelleher discussed bylaws and the need to adjust wording regarding the Graduate Coordinators

Advisory Council and the Graduate Curriculum Committee. He will bring recommended changes to the constitution committee and Faculty Senate.

12. Duolingo – Should we consider allowing this test in addition to IELTS and TOEFL?

Dr. Heather McAuslane and Dr. Megan Forbes were present to discuss the test's timing, cost, and skill recognition. Further questions were raised regarding security, testing centers, and the validity of it as an academic test. No consensus was reached.

13. Certificate policy – In cases in which a program offers a master's program and graduate certificate of the exact same name, should we allow students who are leaving the master's program to be awarded a certificate if they have already completed all the required courses? Questions were raised regarding the time limit for applying and the impact of SLO reporting. More information needed.

The meeting adjourned at 2:30 p.m.

## Certificate | New for request 19118

### Info

**Request:** Artificial Intelligence in Public Health and Healthcare Grad Certificate

**Description of request:** The College of Public Health and Health Professions seeks to create a graduate certificate in Artificial Intelligence in Public Health and Healthcare

**Submitter:** April Oneal apriloneal3@ufl.edu

**Created:** 3/11/2024 2:54:11 PM

**Form version:** 13

### Responses

#### Certificate Name

*Enter the name of the certificate. Example: Urban Pest Management.*

Artificial Intelligence in Public Health and Healthcare

#### Transcript Title

*Enter the transcript title of the certificate. This is limited to 50 characters, including spaces.*

AI in Public Health & Healthcare

#### Credits

*Enter the total number of credit hours needed to complete the certificate program.*

12

#### Level

*Enter the program level of the certificate.*

Graduate

#### CIP Code

*Enter the six digit Classification of Instructional Programs (CIP) code for the degree program associated with the proposed certificate. The code has the numerical format XX.XXXX.*

*Contact the [Office of Institutional Planning and Research \(OIPR\)](#) to verify the CIP code for the existing degree program.*

51.2201

#### Degree Program

*Enter the degree program associated with the CIP code entered above (e.g. Accounting).*

Public Health

#### Effective Term

*Enter the term (semester and year) that the certificate would start. Please keep in mind that this may be adjusted depending on University deadlines for approval process.*

Earliest Available

### Effective Year

Earliest Available

### Certificate Description

*Enter a description of the certificate. This is limited to 50 words or fewer.*

The certificate for Artificial Intelligence in Public Health and Healthcare is intended for graduates seeking to acquire technical knowledge, ethical decision-making, and applied skills in artificial intelligence tailored to public health practice and healthcare settings.

### Requirements for Admission

*List any requirements for admission to this new certificate program such as grade point average, background in the discipline, current enrollment status, etc.. Please indicate if the certificate only accepts students of a particular status: for example, current UF graduate students, graduate students in a specific college, non-degree seeking students, or any student status.*

PHC 6000 Epidemiology Research Methods I (3) or PHC 6068 or PHC 6050C or PHC 6051

### Requirements for Completion

*List all of requirements for completion of the certificate program, such as courses, internships, projects, etc. For each course, indicate prefix, number, title, # credits, and established grading scheme (letter grade or S/U). The title should be identical to the official title of the course as listed in the Graduate catalog or <a href="http://gradcatalog.ufl.edu/">Graduate</a> catalog.*

Course code and title (individual course credits)Certificate credits

#### Core courses

Choose one between:

- PHC 7083 Computational Data Science for Epidemiology\* (2\*\*credits; Letter-graded)
- PHC 6097 Statistical Learning with Applications in Health Sciences (3 credits; Letter-graded)

(Approval #19172)

PHC 6XXX Health, Artificial Intelligence, and Human Values (3 credits; Letter-graded)

GMS 7858 Causal Artificial Intelligence for Health Research (3 credits; Letter-graded)

#### Elective courses

Choose one from among the following:

- Epidemiology:

- o PHC 7065 Advanced Skills in Epidemiological Data Management (2 credits; Letter-graded)
- Biostatistics
  - o PHC 6791 Data Visualization in Health Sciences (3 credits; Letter-graded)
  - o PHC 7068 Biostatistical Computing (3) [this is required by Introduction to Statistical Learning with Applications in Health Sciences]
  - o PHC 6088 Statistical Analysis of Genetic Data (3 credits; Letter-graded)
  - o PHC 6937 Statistical and Computational Analysis of Genomic Data (Special Topics) (3 credits; Letter-graded)
- Environmental and Global Health
  - o PHC 7738C PBPK Modeling in Toxicology and Risk Assessment (Special Topics) (3 credits; Letter-graded)
- Health Outcomes and Biomedical Informatics (COM)
  - o GMS 6803 Data Science for Clinical Research (3 credits; Letter-graded)
  - o GMS 6850 Foundations of Biomedical Informatics (3 credits; Letter-graded)
  - o GMS 6856 Introduction to Biomedical Natural Language Processing (3 credits; Letter-graded)
  - o GMS 6804 Translational Bioinformatics (3 credits; Letter-graded)
  - o GMS 6805 Information Modeling in Biomedicine (3 credits; Letter-graded)

Total credits 12

\*Please note that we have requested a name change for PHC 7083 Computational Data Science for Epidemiology to Artificial Intelligence and Data Science for Epidemiology and Population Health (3 credits) pending the Graduate Curriculum Committee approval

\*\*We have requested a credit increase from 2 to 3 credits for this course, which is pending the Graduate Curriculum Committee approval (Approval request #18782)

### **Rationale and Place in Curriculum**

*Describe the rationale for offering this new certificate and having it on the transcript, its place in the curriculum, how it will enhance the quality of the existing program or department. Also describe its overlap with any existing certificates and programs, and a justification for any such overlap. Note that documentation of consultation will be expected for any certificate with overlapping content.*

Artificial Intelligence (AI) is becoming commonplace tool in all fields of research, industry development, policymaking and daily life. Future professionals in public health and healthcare will be expected to know and integrate AI routinely, for analytics as well as decision making.

To better prepare students for their professional growth, public health educational programs must include AI training in the curriculum, and provide coverage of technical, applied, and ethical aspects of AI (especially when AI is utilized in health decisions).

This certificate is designed for current graduate students who are seeking to gain AI



knowledge and skills with emphasis on public health and healthcare, addressing cutting edge topics such as causal AI, AI fairness and bias, coding, and health data/pipeline visualization.

### **Student Learning Outcomes**

*List each student learning outcome with its associated courses, assessment type (e.g. course-related exam/assignment/grade, final paper/project/presentation, standardized exam, capstone) and method (e.g. rubric, faculty committee, single faculty member).*

#### **(1) Know & Understand AI**

The courses "Computational Data Science for Epidemiology" and "Introduction to Statistical Learning with Applications in Health Sciences" are covering the technical aspects of AI algorithms and how to embed them in study design/analytics of public health data.

The course "Causal Artificial Intelligence for Health Research" covers methods in causal AI, analysis of bias in observational data, and AI fairness algorithms.

Other elective courses cover specific themes in AI methodologies for health data analytics, e.g., big data -omics, natural language processing.

#### **(2) Use & Apply AI**

All the required courses provide use cases for AI applications, and both required and elective courses offer a variety of software training/hands-on (e.g., R, python).

#### **(3) AI Ethics**

The course "Health, Artificial Intelligence, and Human Values" covers comparison of protocols, policies, and practices related to AI applications in healthcare and public health, so that their effectiveness for safeguarding against ethical violations are addressed. Also, the course characterizes the threats and safeguards that contribute to the trustworthiness of artificial intelligence applications in healthcare and public health (data integrity, internal/external checks, safety, transparency, accountability structures, human influences upon reliable outputs, etc.). In parallel, the course "Causal Artificial Intelligence for Health Research" provides the tools to perform fairness analysis and analyze social/health disparities.

#### **(4) Evaluate and Create AI**

All the courses that include software and use cases allow to develop own pipelines on the basis of new study designs. The "Data Visualization in Health Sciences" covers high-level graphical AI software to execute a machine learning pipeline for a health related intervention so that an analysis can be completed.

## Artificial Intelligence in Public Health and Healthcare Graduate Certificate

The certificate for Artificial Intelligence in Public Health and Healthcare is intended for graduates seeking to acquire technical knowledge, ethical decision-making, and applied skills in artificial intelligence tailored to public health practice and healthcare settings.

### Entry requirements: individual course prerequisites (listed at the bottom)

Application to the certificate is open to: (1) UF and non-UF graduate students; (2) UF and non-UF undergraduate students who will complete their undergraduate degree before the starting date of the graduate certificate (pending proof of graduation); (3) students must have completed prerequisites PHC 6000 or PHC 6068 or PHC 6050c, or PHC 6051.

Course code and title (individual course credits)		Certificate credits
Core courses	Choose one between: <ul style="list-style-type: none"> <li>• PHC 7083 Computational Data Science for Epidemiology (3 credits; Letter-graded)</li> <li>• PHC 6097 Statistical Learning with Applications in Health Sciences (3 credits; Letter-graded)</li> </ul> [the first one is more applied, the second one is more theoretical]	3
	PHC 6XXX Health, Artificial Intelligence, and Human Values (3 credits; Letter-graded) (Approval #19172)	3
	GMS 7858 Causal Artificial Intelligence for Health Research (3 credits; Letter-graded)	3
Elective courses	<ul style="list-style-type: none"> <li>• Choose among:</li> <li>• Epidemiology:               <ul style="list-style-type: none"> <li>○ PHC 7065 Advanced Skills in Epidemiological Data Management (2 credits; Letter-graded)</li> </ul> </li> <li>• Biostatistics               <ul style="list-style-type: none"> <li>○ PHC 6791 Data Visualization in Health Sciences (3 credits; Letter-graded)</li> <li>○ PHC 7068 Biostatistical Computing (3 credits; Letter-graded) [this is required by Introduction to Statistical Learning with Applications in Health Sciences]</li> <li>○ PHC 6088 Statistical Analysis of Genetic Data (3 credits; Letter-graded)</li> <li>○ PHC 6937 Statistical and Computational Analysis of Genomic Data (Special Topics) (3 credits; Letter-graded)</li> </ul> </li> </ul>	3

	<ul style="list-style-type: none"> <li>• Environmental and Global Health <ul style="list-style-type: none"> <li>○ PHC 6937 PBPK Modeling in Toxicology and Risk Assessment (Special Topics) (3 credits; Letter-graded)</li> </ul> </li> <li>• Health Outcomes and Biomedical Informatics (COM) <ul style="list-style-type: none"> <li>○ GMS 6803 Data Science for Clinical Research (3 credits; Letter-graded)</li> <li>○ GMS 6850 Foundations of Biomedical Informatics (3 credits; Letter-graded)</li> <li>○ GMS 6856 Introduction to Biomedical Natural Language Processing (3 credits; Letter-graded)</li> <li>○ GMS 6804 Translational Bioinformatics (3 credits; Letter-graded)</li> <li>○ GMS 6805 Information Modeling in Biomedicine (3 credits; Letter-graded)</li> </ul> </li> </ul>	
<b>Total credits</b>		<b>12</b>

**Course prerequisites:**

Core:

PHC 7083: PHC 6000 or equivalent, or permission of the instructor.

PHC 6097: PHC 6068, PHC 6050c, PHC 6051, or permission of the instructor.

PHC 7858: None.

Electives:

PHC 7065: PHC 6000, PHC 6052, or equivalent, or permission of the instructor.

PHC 6791: PHC 6052 or equivalent.

PHC 6068: PHC 6092, PHC 6050c, PHC 6051, or permission of the instructor.

PHC 6088: PHC 6050c, PHC 6092.

PHC 6937 (Statistical and Computational Analysis of Genomic Data): PHC6050c, PHC 6068, or equivalent, or permission of the instructor.

PHC 7738C (PBPK Modeling in Toxicology and Risk Assessment): PHC 6304, or permission of the instructor.

GMS 6803: None.

GMS 6850: None.

GMS 6856: Experience of computer programming, such as python for data processing.

GMS 6804: None.

GMS 6805: None.

## Certificate | New for request 19033

### Info

**Request:** New Graduate Certificate in Public Interest Design

**Description of request:** The College of Design, Construction and Planning seeks to create a new graduate certificate in Public Interest Design.

**Submitter:** Sarah Gamble sarah.gamble@ufl.edu

**Created:** 3/12/2024 1:46:13 PM

**Form version:** 6

### Responses

#### Certificate Name

*Enter the name of the certificate. Example: Urban Pest Management.*

Public Interest Design

#### Transcript Title

*Enter the transcript title of the certificate. This is limited to 50 characters, including spaces.*

Public Interest Design

#### Credits

*Enter the total number of credit hours needed to complete the certificate program.*

12

#### Level

*Enter the program level of the certificate.*

Graduate

#### CIP Code

*Enter the six digit Classification of Instructional Programs (CIP) code for the degree program associated with the proposed certificate. The code has the numerical format XX.XXXX. Contact the [Office of Institutional Planning and Research \(OIPR\)](#) to verify the CIP code for the existing degree program.*

04.0201

#### Degree Program

*Enter the degree program associated with the CIP code entered above (e.g. Accounting).*

Architecture

**Effective Term**

*Enter the term (semester and year) that the certificate would start. Please keep in mind that this may be adjusted depending on University deadlines for approval process.*

Fall

**Effective Year**

2024

**Certificate Description**

*Enter a description of the certificate. This is limited to 50 words or fewer.*

This graduate certificate is focused on Public Interest Design (PID), a collaborative and interdisciplinary field focused on the built environment. The certificate is designed to prepare students for PID practice, including engagement with community and fellow practitioners around social, economic, and environmental issues related to the built environment.

**Requirements for Admission**

*List any requirements for admission to this new certificate program such as grade point average, background in the discipline, current enrollment status, etc.. Please indicate if the certificate only accepts students of a particular status: for example, current UF graduate students, graduate students in a specific college, non-degree seeking students, or any student status.*

Applicants must have earned a bachelor's degree or higher from an accredited US institution, or international equivalent, and have a minimum upper-division GPA of at least 2.0.

Current UF graduate student or working professional in Architecture, Urban and Regional Planning, Landscape Architecture, Interior Design, Historic Preservation, Transportation, or related fields enrolled as a post-baccalaureate, non-degree seeking students. Students may pursue just the graduate certificate without applying as a master's degree-seeking student within the graduate program. These courses may not be applied to another certificate program (per UF policy).

**Requirements for Completion**

*List all of requirements for completion of the certificate program, such as courses, internships, projects, etc. For each course, indicate prefix, number, title, # credits, and established grading scheme (letter grade or S/U). The title should be identical to the official title of the course as listed in the Graduate catalog or <a href="http://gradcatalog.ufl.edu/">Graduate</a> catalog.*

Consistent with longstanding Graduate Council policy, the only passing grades for students in a Graduate Certificate program are A, A-, B+, B, B-, C+, C, and S.

All coursework used for the Graduate Certificate must meet a minimum overall 3.0 GPA (truncated).

Coursework and credits used for a UF Graduate Certificate may also be used to fulfill some requirements for a UF graduate degree, subject to existing Graduate School policy, and with the approval of the academic unit offering the graduate degree program.

Students will be made aware that only 12 credits taken in the certificate program may potentially be transferred towards a master's degree. As such, they will be strongly encouraged to apply to the master's program prior to their final semester in the certificate, otherwise they will be required to take an additional course in the master's program to fulfill the graduation requirement.

Following traditional Transfer of Credit policy and procedures, up to 15 credits earned with a grade of B or better may be considered for transfer credit toward a future graduate degree provided.

A total of 12 credit hours is required to complete the certificate: one 3-credit required course providing an overview of the field; and three 3-credit elective courses from a list of approved courses. This list will be updated periodically by the Director of the PID certificate, in keeping with current course offerings and new courses being offered. Courses with 4 credits or more will contribute a maximum of 3-credits toward the total number of credits required for the certificate.

If degree-seeking students enrolled in the PID certificate are required to complete a Master Research Project or Thesis as part of their degree program, the Master Research Project or Thesis must focus on PID related topics. Topics will be reviewed and approved by the Director of the PID certificate.

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Required Course (3-credits; Letter-graded)

ARC 6XXXC Public Interest Design: Contemporary Issues and Practice (no course number assigned yet, in concurrent review approval# 19032)

Approved Elective Courses: Architecture

ARC 6911: Architectural Research\*(1-6 Credits; Letter-graded)

African Architecture, Donna Cohen, Fall offering (in-person) Why Adaptive Reuse?, Albertus Wang, Fall offering (online)

ARC 6912: Architectural Research II\*(1-6 Credits; Letter-graded)

The Planning Game, Alfonso Perez-Mendez, Fall offering (online or in-person);  
Community Design Practice, Albertus Wang, Summer offering (hybrid);  
Internship/Supervised Research\*\* Independent Study\*\*

ARC 6357: Advanced Topics in Architectural Design\* (3 Credits; Letter-graded) Debates in Spatial Justice, Stathis Yeros, Occasional offering

ARC 6399: Advanced Topics in Urban Design\* (3 Credits; Letter-graded)

The Imperative of Finding Shade, Martha Kohen, Occasional offering The American City, Peter Sprowls, Occasional offering

Approved Electives: Urban and Regional Planning  
URP 6100: Planning Theory and History (3 Credits; Letter-graded)  
Kristen Larsen, Fall offering (in-person + online), Spring offering (in-person)

URP 6931 Topical Seminar\* (1-4 Credits; Letter-graded) Community Engagement,  
Kathryn Frank, Spring offering (in-person)

\* Beyond the specific course title listed, other courses with these course numbers will be reviewed each semester by the Director of the PID certificate to determine applicability/focus in Public Interest Design for inclusion as approved electives.

\*\* Internships, Supervised Research, and Independent Studies for course credit will be reviewed by the Director of the PID certificate to determine applicability/focus in Public Interest Design for inclusion as approved electives.

Graduate Catalog Descriptions Required Course: Architecture

ARC 6XXXC Public Interest Design: Contemporary Issues and Practice

An introduction to contemporary issues and practice of Public Interest Design (PID), an interdisciplinary and collaborative field focused on the built environment. The need and potential for PID to address social, economic, and environmental justice issues engages a range of geographies, communities, and project types. Modes of practice and case studies are explored in relationship to benefits and barriers to the practice.

(no course number assigned yet, in concurrent review approval #19032)

Approved Elective Courses:

Architecture ARC 6911: Architectural Research

Special studies adjusted to individual needs.

Grading Scheme: Letter Graded, 1-6 Credits, Max 9 Credits

ARC 6912: Architectural Research II Special studies adjusted to individual needs. Grading Scheme: Letter Graded, 1-6 Credits, Max 9 Credits

ARC 6357: Advanced Topics in Architectural Design

Expanding familiar concepts in the conception and production of architecture. Examines the potential for a program to generate architectonic form, bringing a multidisciplinary approach to historical manifestations.

Grading Scheme: Letter Graded, 3 Credits, Max 6 Credits

ARC 6399: Advanced Topics in Urban Design

Transformations of historic urban form and newly developed urban areas and their cultural, sociological, economic, and technological impact.

Grading Scheme: Letter Graded, 3 Credits, Max 9 Credits

Approved Electives:

Urban and Regional Planning URP 6100: Planning Theory and History

History of planning and the associated development of theory. Synoptic versus disjointed incrementalism and the political setting for comprehensive planning are emphasized.

Grading Scheme: Letter Graded, 3 Credits

URP 6931: Topical Seminar

Current planning opportunity examined.

Grading Scheme: Letter Graded, 1-4 Credits, Max 6 Credits

### **Rationale and Place in Curriculum**

*Describe the rationale for offering this new certificate and having it on the transcript, its place in the curriculum, how it will enhance the quality of the existing program or department. Also describe its overlap with any existing certificates and programs, and a justification for any such overlap. Note that documentation of consultation will be expected for any certificate with overlapping content.*

#### Background and Rationale

The Certificate Program in Public Interest Design (PID) brings together the School of Architecture's (SoA) commitment to design with public service, teaching the next generation of architects and professionals the power of design to improve our environments and benefit communities. With only 2 US universities offering a similar certificate program, the creation of a PID certificate program sets UF SoA apart in making the field a priority and a key focus of research.

The field of Public Interest Design emphasizes collaboration and cooperation in the pursuit of interdisciplinary design, therefore furthering SoA's interaction with community stakeholders, including state/local governments, non-profit organizations, neighborhood organizations, and citizens. The program provides the opportunity for SoA and the College of Design, Planning, and Construction (DCP) to deepen its commitment to diversity, equity, and inclusion (DEI), in tandem with social justice and community collaborations, through coursework, research, and design projects pursued by students and faculty. For the SoA's main campus and CITYLab locations, the program offerings hold the potential to increase diversity within the student body and attract students from and/or committed to disenfranchised communities. The program also fosters opportunities for multi-disciplinary research and teaching within DCP, furthering the ONE DCP initiative, and connections to its research centers, including Florida Institute for Built Environment Resilience (FIBER) and the Center for Hydro-generated Urbanism (CHU).

#### Defining PID

Just as public health is a subset of the medical profession, PID developed as a subset of the architectural practice, having evolved from the practice of Community Design that emerged in the 1960's. PID draws on facets of urban planning, architectural design, the arts, community engagement, and education to create a collaborative, inclusive, and interdisciplinary design process. "Inherently participatory and human-centered, public interest design seeks to improve the quality of life for all people, regardless of their socio-economic background." describes John Cary, a thought leader in the field early on in its development. For Florida, PID research and practice engages pressing environmental, social justice, and resiliency issues at a pivotal point in the state's history.

#### Established Need for PID Education across the US

Design in service to communities is a growing field of interest, yet both professionals and



students perceive a lack of training available within schools of architecture and affiliated fields. As a part of the 2010 Latrobe Prize research, four leading practitioners in PID, Roberta M Feldman, Sergio Palleroni, David Perkes, and Bryan Bell, produced *Wisdom from the Field: Public Interest Architecture in Practice*. The publication included a 2011 survey of AIA members with a focus on the practice of PID and ethics, led by Bryan Bell, now Associate Professor at North Carolina State University School of Architecture and Coordinator of their PID graduate certificate program. The survey results highlighted the need for training in the field. Key statistics from this survey are provided below:

53% responded that the lack of necessary education was a factor in inhibiting getting ahead and succeeding in a career in public interest design.

30% of respondents ranked “putting creative abilities to practical use” and “improving quality of life in communities” as their top two reasons for entering the profession of architecture. It is reasonable to conclude that 30% of practicing architects entered the profession to engage in public interest design under this broad definition.

49% or more of the respondents selected four learning objectives when asked: If there were training in public interest design available to you, which of the following learning objectives would you value?

- Maximizing a project’s positive impact on a community
- Understanding financial strategies to practice Public Interest Design
- Measuring the social, economic, and environmental impact of a project on a community
- Learning a step-by-step process or working with a community on a project

20% of respondents knew architects who have left the field of architecture because of dis-satisfaction with how it served local communities.

#### Place in the Curriculum

The Certificate in Public Interest Design will be available to students currently enrolled in graduate degree programs within DCP and other colleges across campus (with departmental approval).

The certificate will also be open to professionals and community leaders who are admitted and enroll as post-baccalaureate, non-degree seeking students. Due to the focus and content, the certificate program is well-suited for Master of Architecture students and other DCP / built environment related degree programs that have 12 credit hours allocated to electives within the curriculum plans.

#### **Student Learning Outcomes**

*List each student learning outcome with its associated courses, assessment type (e.g. course-related exam/assignment/grade, final paper/project/presentation, standardized exam, capstone) and method (e.g. rubric, faculty committee, single faculty member).*

The student learning objectives for the Certificate in Public Interest Design are:

- Identify the need and potential for design / designers to positively benefit the public realm and community-at-large

- Explore the potential for PID to address equity, diversity, and inclusion, social justice, and environmental issues within local, national, and global communities
- Explore the range of interdisciplinary, professional practice opportunities in PID, including private practice, governmental, and non-profit / NGO
- Analyze project examples, including community engagement processes, design processes, and completed works, to understand the range of impacts and outcomes
- Apply methods of community engagement to assess and document stakeholder needs, community assets, project challenges, etc
- Apply a collaborative design process to a community-based project

## Certificate | Close-Modify for request 19090

### Info

**Request:** Close graduate certificate in Cell and Tissue Science and Engineering

**Description of request:** The Herbert Wertheim College of Engineering seeks to close the graduate certificate in Cell and Tissue Science and Engineering

**Submitter:** Johannes Van Oostrom oostrom@ufl.edu

**Created:** 11/13/2023 3:27:58 PM

**Form version:** 1

### Responses

#### Current Certificate Name

Cell and Tissue Science and Engineering

#### Effective Term

*Select the requested term and year that the certificate change(s) will first be implemented. Selecting "Earliest" will allow the change to be effective in the earliest term after full approval.*

Earliest Available

#### Effective Year

Earliest Available

#### Requested Action

Terminate Certificate

#### Rationale for Proposed Change(s)

No students are active in the certificate, and no students have applied in recent years.

There are other, more specific course and certificate options for students.

## Concentration | New for request 19105

### Info

**Request:** Add CTS concentration to PhD in Medical Sciences/Medical Physics

**Description of request:** The College of Medicine seeks to participate in the existing interdisciplinary concentration in Clinical and Translational Science for the Doctor of Philosophy (PhD) with a major in Medical Sciences and a concentration in Medical Physics.

**Submitter:** Brenda Tieden tiedeb@radiology.ufl.edu

**Created:** 2/26/2024 10:26:12 AM

**Form version:** 3

### Responses

#### Proposed Action

*Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.*

*OR,*

*Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.*

Begin Participating in a Concentration

*Note that documents can be uploaded on the next page or after the request has been initiated.*

#### Concentration Name

*Enter the name of the concentration. Example: "Mathematical Modeling" or "Ecological Restoration".*

Clinical Translational Science

#### Credits

*Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).*

14

#### Effective Term

*Enter the term (semester and year) that the concentration would start.*

Earliest Available

#### Effective Year

Earliest Available

**Students**

Enter the expected number of new students enrolled in this concentration in the first three years.

1

**Percentage of Credits Available Fully Online**

Indicate the percentage of course credits that will be available through fully online courses.

<50%

**Percentage of Credits Available Off-Campus**

Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).

<25%

**Is this an additional (secondary) concentration?**

Yes

**All Department/Degree/Majors Adding Concentration**

List the department / degree / major combinations at the degree level chosen that will offer this concentration.

College of Medicine: Doctor of Philosophy: with a major in Medical Sciences with a concentration in Medical Physics

*For example, to request a new "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all participating departments:*

- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*
- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

**Rationale for Proposed Concentration**

*Describe the rationale for offering this new concentration and having it on the transcript, how it will enhance the quality of the existing major, how it relates to graduate programs at peer institutions. Also describe what distinguishes this new concentration within the existing major(s) in the degree program, the degree of its overlap with existing majors and concentrations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.*

The Clinical & Translational Science (CTS) Concentration provides PhD students with skills required to develop a career in multidisciplinary clinical and translational research. The program uses a team-science approach, and provides mentoring and didactic training for predoctoral students performing clinical and/or translational research in health-related field at UF. PhD students who complete program requirements may earn an interdisciplinary concentration in CTS which is listed on their official UF academic transcripts. PhD students supported by the TL1 Training Grant from the NIH National Center for Advancing Translational Sciences (NCATS) are required to pursue the CTS Concentration. We would like to become affiliated with the CTS Concentration so that our students can participate and take advantage of the opportunities provided by the CTS Concentration to expand the scope of their graduate experience at UF.

### **Impacts on Other Programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

N/A

## Concentration | New for request 19465

### Info

**Request:** Create a new graduate concentration in Medical Anatomy & Physiology for the M.S. with majors in Medical Sciences and Anatomical Science Education

**Description of request:** The College of Medicine seeks to create a graduate concentration in Medical Anatomy & Physiology for the Master of Science (M.S.) with a major in Medical Sciences or a major in Anatomical Sciences Education via an online modality

**Submitter:** Francesca Tai frankiet@ufl.edu

**Created:** 2/23/2024 2:22:28 PM

**Form version:** 2

### Responses

#### Proposed Action

*Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.*

*OR,*

*Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.*

Create a Concentration

*Note that documents can be uploaded on the next page or after the request has been initiated.*

#### Degree Level

*Indicate the degree level in which to add the concentration.*

M - Master's Degree

#### Thesis or Non-Thesis

*is this concentration for a thesis or non-thesis degree?*

Non-Thesis

#### Concentration Name

*Enter the name of the concentration. Example: "Mathematical Modeling" or "Ecological Restoration".*

Medical Anatomy & Physiology

#### Credits

*Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).*

**Effective Term**

*Enter the term (semester and year) that the concentration would start.*

Summer

**Effective Year**

2024

**Students**

*Enter the expected number of new students enrolled in this concentration in the first three years.*

300

**Percentage of Credits Available Fully Online**

*Indicate the percentage of course credits that will be available through fully online courses.*

100%

**Percentage of Credits Available Off-Campus**

*Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).*

50% or more

**Is this an additional (secondary) concentration?**

Yes

**All Department/Degree/Majors Adding Concentration**

*List the department / degree / major combinations at the degree level chosen that will offer this concentration.*

College of Medicine / Master of Science (M.S.) / Medical Sciences

Existing Concentrations-

College of Medicine / Master of Science (M.S.) / Medical Sciences with a Concentration in Medical Physiology and Pharmacology

College of Medicine / Master of Science (M.S.) / Medical Sciences with a Concentration in Physiology and Aging

College of Medicine / Master of Science (M.S.) / Medical Sciences with a Concentration in Anatomical Sciences Education

*For example, to request a new "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all participating departments:*



- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*
- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

### **Rationale for Proposed Concentration**

*Describe the rationale for offering this new concentration and having it on the transcript, how it will enhance the quality of the existing major, how it relates to graduate programs at peer institutions. Also describe what distinguishes this new concentration within the existing major(s) in the degree program, the degree of its overlap with existing majors and concentrations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.*

The University of Florida previously approved two graduate certificate programs. The first is a Graduate Certificate in Medical Physiology. In this certificate, several physiological and patho-physiological principles are discussed. Examples of this include diabetes, hypertension, COPD, and chronic kidney disease to name a few. The second is the Graduate Certificate in Medical Human Anatomy. This program covers medical human anatomy, histology, and embryology. To meet the demand of a number of individuals moving into the healthcare and educational fields (i.e., doctors, nurses, physician assistants, dentists, nurse practitioners, educators, Ph.D. scientists, etc.), we propose the creation of a new graduate concentration in Medical Anatomy & Physiology. The University has already approved all courses that would constitute this M.S. degree program.

This new MS degree concentration is the marrying of two previously approved Graduate Certificates, namely, a Graduate Certificate in Medical Physiology and a Graduate Certificate in Medical Human Anatomy. This concentration is being created to meet the demands of a number of individuals moving into the healthcare and educational fields (i.e., doctors, nurses, physician assistants, dentists, nurse practitioners, educators, Ph.D. scientists, etc.). The specific curriculum is shown below.

### **Required Core Courses (9 Anatomy credits AND 9 Physiology credits)**

#### **Anatomy**

- GMS 5605 Medical Anatomy (3 Credits; Letter-graded)
- GMS 5604 Medical Human Embryology (3 Credits; Letter-graded)
- GMS 5630 Medical Histology (4 Credits; Letter-graded)

#### **Physiology**

- GMS 6440 Fundamentals of Medical Physiology (1 Credit; Letter-graded)
- GMS 6401 Medical Renal Physiology (2 Credits; Letter-graded)
- GMS 6402 Medical Respiratory Physiology (3 Credits; Letter-graded)
- GMS 6474 Medical Cardiovascular and Muscle Physiology (3 Credits; Letter-graded)

### **Elective Courses (take a minimum of 6 Anatomy credits AND 6 Physiology credits)**

#### Anatomy

GMS 5606L Medical Human Anatomy Lab (3 Credits; Letter-graded)

GMS 5613 Medical Human Anatomy by Diagnostic Imaging (3 Credits; Letter-graded)

GMS 6610 Anatomy of the Peripheral Nervous System (3 Credits; Letter-graded)

GMS 5057 Medical Cell Biology (3 Credits; Letter-graded)

#### Physiology

GMS 6419 Medical Endocrinology and Reproduction (3 Credits; Letter-graded)

GMS 6479 Medical Gastrointestinal Physiology (2 Credits; Letter-graded)

GMS 6410 Physiology of Circulation of Blood (2 Credits; Letter-graded)

GMS 6413 Advances in Hypertension Research (2 Credits; Letter-graded)

GMS 6414 Advanced Renal Physiology (2 Credits; Letter-graded)

GMS 6470 Advanced Respiration Physiology 1 (3 Credits; Letter-graded)

### **Impacts on Other Programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

In order to determine the impact on other programs/departments, we sought external consultation from the following Colleges,

Dean Dana Zimmel, College of Veterinary Medicine  
Dean Elaine Turner, Dean of IFAS  
Dean Michael Reid, College of Health & Human Performance  
Dean David Richardson, CLAS

Deans Turner and Reid indicated their support of the program and expressed no concerns or negative impacts on their programs. We never heard back from Deans Zimmel and Richardson.

## Concentration | New for request 19442

### Info

**Request:** Create a new graduate concentration in Managed Care Pharmacy

**Description of request:** The College of Pharmacy seeks to create a graduate concentration in Managed Care Pharmacy for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences with a self-supporting online delivery modality.

**Submitter:** Heather Steingraber hsteingraber@cop.ufl.edu

**Created:** 3/12/2024 6:35:07 PM

**Form version:** 9

### Responses

#### Proposed Action

*Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.*

*OR,*

*Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.*

Create a Concentration

*Note that documents can be uploaded on the next page or after the request has been initiated.*

#### Degree Level

*Indicate the degree level in which to add the concentration.*

M - Master's Degree

#### Thesis or Non-Thesis

*is this concentration for a thesis or non-thesis degree?*

Non-Thesis

#### Concentration Name

*Enter the name of the concentration. Example: "Mathematical Modeling" or "Ecological Restoration".*

Managed Care Pharmacy

#### Credits

*Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).*

**Effective Term**

*Enter the term (semester and year) that the concentration would start.*

Earliest Available

**Effective Year**

Earliest Available

**Students**

*Enter the expected number of new students enrolled in this concentration in the first three years.*

30

**Percentage of Credits Available Fully Online**

*Indicate the percentage of course credits that will be available through fully online courses.*

100%

**Percentage of Credits Available Off-Campus**

*Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).*

50% or more

**Is this an additional (secondary) concentration?**

No

**All Department/Degree/Majors Adding Concentration**

*List the department / degree / major combinations at the degree level chosen that will offer this concentration.*

Pharmaceutical Outcomes and Policy | Master of Science in Pharmacy (M.S.P.) |  
Pharmaceutical Sciences

*For example, to request a new "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all participating departments:*

- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*

- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

### **Rationale for Proposed Concentration**

*Describe the rationale for offering this new concentration and having it on the transcript, how it will enhance the quality of the existing major, how it relates to graduate programs at peer institutions. Also describe what distinguishes this new concentration within the existing major(s) in the degree program, the degree of its overlap with existing majors and concentrations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.*

The Department of Pharmaceutical Outcomes and Policy offers a Master of Science in Pharmacy (M.S.P.) program that is available either online, or on-campus. In terms of university taxonomy, it is as follows:

Master of Science in Pharmacy | Major in Pharmaceutical Sciences | Concentration in Pharmaceutical Outcomes and Policy

Up to now, the online and on-campus programs have shared this same major, degree, and concentration. However, the on-campus and online programs have evolved in focus areas, coursework, and target audiences over the years. At this point, the department feels that the two programs are sufficiently different and should no longer share the same concentration. See attachment 1 for a summary of some key differences between the two programs.

The department is now proposing that the on-campus M.S.P. program should continue using the current concentration, Pharmaceutical Outcomes and Policy, while the online program should create new concentrations for each of the four specialty areas offered, which include:

- Pharmacoeconomics
- Managed Care Pharmacy
- Pharmaceutical Policy
- Pharmaceutical Value Communications

We are submitting four separate proposals, each establishing one of these new concentrations.

In this proposal, we propose creating a new graduate concentration in Pharmaceutical Policy. Our curriculum for this concentration is identical to the current curriculum students take in our program, if they specialize in Pharmaceutical Policy. (See attachment 2.) To be clear, establishing the new concentration will simply formalize the specialty by “elevating” that specialty to the concentration level. We believe this will be helpful to alumni when they are job-seeking, because the more specific graduate concentration will allow them to be clear about their specific area of expertise within the broader field of Pharmaceutical Outcomes and Policy.

Our department currently offers graduate certificates in each of the specialty areas. We would like to continue offering the certificates (15 cr.), which are primarily intended for students who want to complete a shorter program of study, rather than the 33 cr. M.S.P. degree program. We realize, though, that there may be students who enter the program as a certificate student, but later decide to apply for the M.S.P. program. Likewise, there may be students who enter as a M.S.P. student but later decide to drop-out of the M.S.P., and complete only the graduate certificate.

Please see attachment 3 for our proposed policy for handling these situations.

### **Impacts on Other Programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

The only impact we can foresee is clarifying which programs/concentrations are available on- campus vs. online.

We have been offering the managed care pharmacy specialty curriculum for several years now, as a sub-specialization within the concentration of Pharmaceutical Outcomes and Policy. This proposal formalizes the specialty to the level of a graduate concentration.

**Attachment 1: Summary of key differences between Online and On-campus M.S.P. programs offered in the Department of Pharmaceutical Outcomes & Policy**

	<u>Online M.S.P. degree program</u>	<u>On-campus M.S.P. degree program</u>
Overall Focus	Application of real-world skills and knowledge	Research, and preparation for doctoral study (for appropriate students)
Program length	Part time, 33 credits (2 years)	Full time, 36 credits (2 years)
Areas of specialty	<ul style="list-style-type: none"> <li>• Pharmacoconomics</li> <li>• Managed Care Pharmacy</li> <li>• Pharmaceutical Policy</li> <li>• Pharmaceutical Value Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmacoepidemiology and Safety Sciences</li> <li>• Pharmacoconomics and Outcomes Research</li> <li>• Pharmaceutical Health Services Research</li> </ul>
Tuition	Market rate tuition: \$750/credit, regardless of residency.	Standard UF Graduate tuition rate for in-state, out-of-state residents.
Student start date	Fall or Spring	Fall
Culminating experience	Capstone course (PHA 6279), which involves creation of a final project or paper	Master's thesis
Website	<a href="https://onlinepop.pharmacy.ufl.edu/">https://onlinepop.pharmacy.ufl.edu/</a>	<a href="https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/">https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/</a>

## **Attachment 2: Proposed curriculum for the Managed Care Pharmacy concentration**

**Unless otherwise indicated, all courses are letter graded.**

### **Coursework completed by all M.S.P. students (18 cr.)**

All students in the Online M.S.P. program in the department of Pharmaceutical Outcomes and Policy will complete the same core coursework of 12 cr., and will take 6 cr. of electives, as follows:

#### Core coursework – 12 cr.

PHA 6186: POP Foundations I – 3 cr.

PHA 6187: POP Foundations 2 – 3 cr.

PHA 6741: Writing for POP– 3 cr.

PHA 6279: POP Capstone– 3 cr. – S/U graded

#### Electives – 6 cr.

Students may choose to take any courses offered in the Online POP program as electives.

### **Coursework for Managed Care Pharmacy concentration (15 cr.)**

PHA 6211: Applied Pharm. Benefit Design – 3 cr.

PHA 6213: Advanced Case Studies in Managed Care Pharmacy – 3 cr.

PHA 6276: Pharmacy Benefit Design and Management – 3cr.

PHA 6283: Introduction to Pharmacoeconomics – 3 cr.

PHA 6793: Evidentiary Basis of Pharmaceutical Use – 3 cr.

Total degree credits: 33



Attachment 3: Proposed policy for students who wish to change from graduate certificate to M.S.P., or from M.S.P. to graduate certificate

	Student wishes to change from: Certificate to M.S.P.  (We expect this will happen fairly frequently.)	Student wishes to change from: M.S.P. to Certificate  (We expect this will be a rare occurrence.)
Student has completed all required coursework for the graduate certificate	Student is eligible to earn the certificate, and can apply for the M.S.P. program.	Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the certificate can be conferred.
Student has <b>not</b> completed all required coursework for the graduate certificate	Student will apply to the M.S.P., and if accepted, their enrollment in the certificate will be inactivated.	Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the student can complete remaining certificate coursework. Certificate will be awarded upon completion.

## Concentration | New for request 19443

### Info

**Request:** Create a new graduate concentration in Pharmaceutical Policy

**Description of request:** The College of Pharmacy seeks to create a graduate concentration in Pharmaceutical Policy for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences with a self-supporting online delivery modality.

**Submitter:** Heather Steingraber hsteingraber@cop.ufl.edu

**Created:** 3/12/2024 6:53:10 PM

**Form version:** 6

### Responses

#### Proposed Action

*Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.*

*OR,*

*Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.*

Create a Concentration

*Note that documents can be uploaded on the next page or after the request has been initiated.*

#### Degree Level

*Indicate the degree level in which to add the concentration.*

M - Master's Degree

#### Thesis or Non-Thesis

*is this concentration for a thesis or non-thesis degree?*

Non-Thesis

#### Concentration Name

*Enter the name of the concentration. Example: "Mathematical Modeling" or "Ecological Restoration".*

Pharmaceutical Policy

#### Credits

*Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).*

**Effective Term**

*Enter the term (semester and year) that the concentration would start.*

Earliest Available

**Effective Year**

Earliest Available

**Students**

*Enter the expected number of new students enrolled in this concentration in the first three years.*

30

**Percentage of Credits Available Fully Online**

*Indicate the percentage of course credits that will be available through fully online courses.*

100%

**Percentage of Credits Available Off-Campus**

*Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).*

50% or more

**Is this an additional (secondary) concentration?**

No

**All Department/Degree/Majors Adding Concentration**

*List the department / degree / major combinations at the degree level chosen that will offer this concentration.*

Pharmaceutical Outcomes and Policy | Master of Science in Pharmacy (M.S.P.) |  
Pharmaceutical Sciences

*For example, to request a new "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all participating departments:*

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- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*

- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

### **Rationale for Proposed Concentration**

*Describe the rationale for offering this new concentration and having it on the transcript, how it will enhance the quality of the existing major, how it relates to graduate programs at peer institutions. Also describe what distinguishes this new concentration within the existing major(s) in the degree program, the degree of its overlap with existing majors and concentrations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.*

The Department of Pharmaceutical Outcomes and Policy offers a Master of Science in Pharmacy (M.S.P.) program that is available either online, or on-campus. In terms of university taxonomy, it is as follows:

Master of Science in Pharmacy | Major in Pharmaceutical Sciences | Concentration in Pharmaceutical Outcomes and Policy

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The department is now proposing that the on-campus M.S.P. program should continue using the current concentration, Pharmaceutical Outcomes and Policy, while the online program should create new concentrations for each of the four specialty areas offered, which include:

- Pharmacoeconomics
- Managed Care Pharmacy
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- Pharmaceutical Value Communications

We are submitting four separate proposals, each establishing one of these new concentrations.

In this proposal, we propose creating a new graduate concentration in Pharmaceutical Policy. Our curriculum for this concentration is identical to the current curriculum students take in our program, if they specialize in Pharmaceutical Policy. (See attachment 2.) To be clear, establishing the new concentration will simply formalize the specialty by “elevating” that specialty to the concentration level. We believe this will be helpful to alumni when they are job-seeking, because the more specific graduate concentration will allow them to be clear about their specific area of expertise within the broader field of Pharmaceutical Outcomes and Policy.

Our department currently offers graduate certificates in each of the specialty areas. We would like to continue offering the certificates (15 cr.), which are primarily intended for students who want to complete a shorter program of study, rather than the 33 cr. M.S.P. degree program. We realize, though, that there may be students who enter the program as a certificate student, but later decide to apply for the M.S.P. program. Likewise, there may be students who enter as a M.S.P. student but later decide to drop-out of the M.S.P., and complete only the graduate certificate.

Please see attachment 3 for our proposed policy for handling these situations.

### **Impacts on Other Programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

The only impact we can foresee is clarifying which programs/concentrations are available on- campus vs. online.

We have been offering the pharmaceutical policy specialty curriculum for several years now, as a sub-specialization within the concentration of Pharmaceutical Outcomes and Policy. This proposal formalizes the specialty to the level of a graduate concentration.

**Attachment 1: Summary of key differences between Online and On-campus M.S.P. programs offered in the Department of Pharmaceutical Outcomes & Policy**

	<u>Online M.S.P. degree program</u>	<u>On-campus M.S.P. degree program</u>
Overall Focus	Application of real-world skills and knowledge	Research, and preparation for doctoral study (for appropriate students)
Program length	Part time, 33 credits (2 years)	Full time, 36 credits (2 years)
Areas of specialty	<ul style="list-style-type: none"> <li>• Pharmacoconomics</li> <li>• Managed Care Pharmacy</li> <li>• Pharmaceutical Policy</li> <li>• Pharmaceutical Value Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmacoepidemiology and Safety Sciences</li> <li>• Pharmacoconomics and Outcomes Research</li> <li>• Pharmaceutical Health Services Research</li> </ul>
Tuition	Market rate tuition: \$750/credit, regardless of residency.	Standard UF Graduate tuition rate for in-state, out-of-state residents.
Student start date	Fall or Spring	Fall
Culminating experience	Capstone course (PHA 6279), which involves creation of a final project or paper	Master's thesis
Website	<a href="https://onlinepop.pharmacy.ufl.edu/">https://onlinepop.pharmacy.ufl.edu/</a>	<a href="https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/">https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/</a>

## **Attachment 2: Proposed Curriculum for the Pharmaceutical Policy concentration**

**Unless otherwise indicated, all courses are letter graded.**

### **Coursework completed by all M.S.P. students (18 cr.)**

All students in the Online M.S.P. program in the department of Pharmaceutical Outcomes and Policy will complete the same core coursework of 12 cr., and will take 6 cr. of electives, as follows:

#### Core coursework – 12 cr.

PHA 6186: POP Foundations I – 3 cr.

PHA 6187: POP Foundations 2 – 3 cr.

PHA 6741: Writing for POP– 3 cr.

PHA 6279: POP Capstone– 3 cr. – S/U graded

#### Electives – 6 cr.

Students may choose to take any courses offered in the Online POP program as electives.

### **Coursework for Pharmaceutical Policy concentration (15 cr.)**

PHA 6269: Pharmaceutical Products and Public Policy – 3 cr.

PHA 6273: Structure, Process, and Outcomes of Regulation– 3 cr.

PHA 6274: Federal Regulation of Drugs and Pharmacy – 3 cr.

PHA 6275: Federal Regulation of Controlled Substances – 3 cr.

PHA 6280: Medicare and Medicaid – 3 cr.

Total degree credits: 33

Attachment 3: Proposed policy for students who wish to change from graduate certificate to M.S.P., or from M.S.P. to graduate certificate

	<p>Student wishes to change from: Certificate to M.S.P.  (We expect this will happen fairly frequently.)</p>	<p>Student wishes to change from: M.S.P. to Certificate  (We expect this will be a rare occurrence.)</p>
<p>Student has completed all required coursework for the graduate certificate</p>	<p>Student is eligible to earn the certificate, and can apply for the M.S.P. program.</p>	<p>Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the certificate can be conferred.</p>
<p>Student has <b>not</b> completed all required coursework for the graduate certificate</p>	<p>Student will apply to the M.S.P., and if accepted, their enrollment in the certificate will be inactivated.</p>	<p>Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the student can complete remaining certificate coursework. Certificate will be awarded upon completion.</p>



## Concentration | New for request 19444

### Info

**Request:** Create a new graduate concentration in Pharmaceutical Value Communications

**Description of request:** The College of Pharmacy seeks to create a graduate concentration in Pharmaceutical Value Communications for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences with a self-supporting online delivery modality.

**Submitter:** Heather Steingraber hsteingraber@cop.ufl.edu

**Created:** 3/13/2024 11:46:26 AM

**Form version:** 8

### Responses

#### Proposed Action

*Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.*

*OR,*

*Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.*

Create a Concentration

*Note that documents can be uploaded on the next page or after the request has been initiated.*

#### Degree Level

*Indicate the degree level in which to add the concentration.*

M - Master's Degree

#### Thesis or Non-Thesis

*is this concentration for a thesis or non-thesis degree?*

Non-Thesis

#### Concentration Name

*Enter the name of the concentration. Example: "Mathematical Modeling" or "Ecological Restoration".*

Pharmaceutical Value Communications

#### Credits

*Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).*

**Effective Term**

*Enter the term (semester and year) that the concentration would start.*

Earliest Available

**Effective Year**

Earliest Available

**Students**

*Enter the expected number of new students enrolled in this concentration in the first three years.*

15

**Percentage of Credits Available Fully Online**

*Indicate the percentage of course credits that will be available through fully online courses.*

100%

**Percentage of Credits Available Off-Campus**

*Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).*

50% or more

**Is this an additional (secondary) concentration?**

No

**All Department/Degree/Majors Adding Concentration**

*List the department / degree / major combinations at the degree level chosen that will offer this concentration.*

Pharmaceutical Outcomes and Policy | Master of Science in Pharmacy (M.S.P.) |  
Pharmaceutical Sciences

*For example, to request a new "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all participating departments:*

- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*
- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

## **Rationale for Proposed Concentration**

*Describe the rationale for offering this new concentration and having it on the transcript, how it will enhance the quality of the existing major, how it relates to graduate programs at peer institutions. Also describe what distinguishes this new concentration within the existing major(s) in the degree program, the degree of its overlap with existing majors and concentrations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.*

The Department of Pharmaceutical Outcomes and Policy offers a Master of Science in Pharmacy (M.S.P.) program that is available either online, or on-campus. In terms of University taxonomy, it is as follows:

Master of Science in Pharmacy | Major in Pharmaceutical Sciences | Concentration in Pharmaceutical Outcomes and Policy

Up to now, the online and on-campus programs have shared this same major, degree, and concentration. However, the on-campus and online programs have evolved in focus areas, coursework, and target audiences over the years. At this point, the department feels that the two programs are sufficiently different and should no longer share the same concentration. See attachment 1 for a summary of some key differences between the two programs.

The department is now proposing that the on-campus M.S.P. program should continue using the current concentration, Pharmaceutical Outcomes and Policy, while the online program should create new concentrations for each of the four specialty areas offered, which include:

- Pharmacoeconomics
- Managed Care Pharmacy
- Pharmaceutical Policy
- Pharmaceutical Value Communications

We are submitting four separate proposals, each establishing one of these new concentrations.

In this proposal, we propose creating a new graduate concentration in Pharmaceutical Value Communications. Our curriculum for this concentration is identical to the current curriculum that students take in our program, if they specialize in Pharmaceutical Value Communications. (See attachment 2.) To be clear, establishing the new graduate will formalize the specialty by “elevating” that specialty to the concentration level. We believe this will be helpful to alumni when they are job-seeking, because the more specific graduate concentration will allow them to be clear about their specific area of expertise within the broader field of Pharmaceutical Outcomes and Policy.

Our department currently offers graduate certificates in each of the specialty areas. We would like to continue offering the certificates (15 cr.), which are primarily intended for

students who want to complete a shorter program of study, rather than the 33 cr. M.S.P. degree program. We realize, though, that there may be students who enter the program as a certificate student, but later decide to apply for the M.S.P. program. Likewise, there may be students who enter as a M.S.P. student but later decide to drop-out of the M.S.P., and complete only the graduate certificate.

Please see attachment 3 for our proposed policy for handling these situations.

### **Impacts on Other Programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

The only impact we can foresee is clarifying which of our programs/concentrations are available on-campus vs. online.

We have been offering the pharmaceutical value communications specialty curriculum for several years now, as a sub-specialization within the concentration of Pharmaceutical Outcomes and Policy. This proposal formalizes the specialty to the level of a graduate concentration.

**Attachment 1: Summary of key differences between Online and On-campus M.S.P. programs offered in the Department of Pharmaceutical Outcomes & Policy**

	<u>Online M.S.P. degree program</u>	<u>On-campus M.S.P. degree program</u>
Overall Focus	Application of real-world skills and knowledge	Research, and preparation for doctoral study (for appropriate students)
Program length	Part time, 33 credits (2 years)	Full time, 36 credits (2 years)
Areas of specialty	<ul style="list-style-type: none"> <li>• Pharmacoconomics</li> <li>• Managed Care Pharmacy</li> <li>• Pharmaceutical Policy</li> <li>• Pharmaceutical Value Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmacoepidemiology and Safety Sciences</li> <li>• Pharmacoconomics and Outcomes Research</li> <li>• Pharmaceutical Health Services Research</li> </ul>
Tuition	Market rate tuition: \$750/credit, regardless of residency.	Standard UF Graduate tuition rate for in-state, out-of-state residents.
Student start date	Fall or Spring	Fall
Culminating experience	Capstone course (PHA 6279), which involves creation of a final project or paper	Master's thesis
Website	<a href="https://onlinepop.pharmacy.ufl.edu/">https://onlinepop.pharmacy.ufl.edu/</a>	<a href="https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/">https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/</a>

## **Attachment 2: Proposed Curriculum for the Pharmaceutical Value Communications concentration**

**Unless otherwise indicated, all courses are letter graded.**

### **Coursework completed by all M.S.P. students (18 cr.)**

All students in the Online M.S.P. program in the department of Pharmaceutical Outcomes and Policy will complete the same core coursework of 12 cr., and will take 6 cr. of electives, as follows:

#### Core coursework – 12 cr.

PHA 6186: POP Foundations I – 3 cr.

PHA 6187: POP Foundations 2 – 3 cr.

PHA 6741: Writing for POP– 3 cr.

PHA 6279: POP Capstone– 3 cr. – S/U graded

#### Electives – 6 cr.

Students may choose to take any courses offered in the Online POP program as electives.

### **Coursework for Pharmaceutical Value Communications concentration (15 cr.)**

PHA 6793: Evidentiary Basis in Pharmaceutical Use – 3 cr.

PHA 6797: Applied Pharm. Research Communications – 3 cr.

PHA 6791: Systematic Review and Meta-Analysis in Pharm. Interv. - 3 cr.

MMC 6456 Data Storytelling and Visualization – 4 cr.

MMC 5435: Messaging Strategy and the Value Proposition – 3 cr.

Total degree credits: 33

Attachment 3: Proposed policy for students who wish to change from graduate certificate to M.S.P., or from M.S.P. to graduate certificate

	Student wishes to change from: Certificate to M.S.P.  (We expect this will happen fairly frequently.)	Student wishes to change from: M.S.P. to Certificate  (We expect this will be a rare occurrence.)
Student has completed all required coursework for the graduate certificate	Student is eligible to earn the certificate, and can apply for the M.S.P. program.	Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the certificate can be conferred.
Student has <b>not</b> completed all required coursework for the graduate certificate	Student will apply to the M.S.P., and if accepted, their enrollment in the certificate will be inactivated.	Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the student can complete remaining certificate coursework. Certificate will be awarded upon completion.

## Concentration | New for request 19441

### Info

**Request:** Create a new graduate concentration in Pharmacoeconomics

**Description of request:** The College of Pharmacy seeks to create a graduate concentration in Pharmacoeconomics for the Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences with a self-supporting online delivery modality.

**Submitter:** Heather Steingraber hsteingraber@cop.ufl.edu

**Created:** 3/12/2024 6:22:14 PM

**Form version:** 3

### Responses

#### Proposed Action

*Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.*

*OR,*

*Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.*

Create a Concentration

*Note that documents can be uploaded on the next page or after the request has been initiated.*

#### Degree Level

*Indicate the degree level in which to add the concentration.*

M - Master's Degree

#### Thesis or Non-Thesis

*is this concentration for a thesis or non-thesis degree?*

Non-Thesis

#### Concentration Name

*Enter the name of the concentration. Example: "Mathematical Modeling" or "Ecological Restoration".*

Pharmacoeconomics

#### Credits

*Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).*



**Effective Term**

*Enter the term (semester and year) that the concentration would start.*

Earliest Available

**Effective Year**

Earliest Available

**Students**

*Enter the expected number of new students enrolled in this concentration in the first three years.*

75

**Percentage of Credits Available Fully Online**

*Indicate the percentage of course credits that will be available through fully online courses.*

100%

**Percentage of Credits Available Off-Campus**

*Indicate the percentage of course credits that will be available away from the main Gainesville campus (including courses with onsite & off main campus meetings).*

50% or more

**Is this an additional (secondary) concentration?**

No

**All Department/Degree/Majors Adding Concentration**

*List the department / degree / major combinations at the degree level chosen that will offer this concentration.*

Pharmaceutical Outcomes and Policy | Master of Science in Pharmacy (M.S.P.) |  
Pharmaceutical Sciences

*For example, to request a new "Wetland Sciences" concentration at the master's level, list all master's level degree / major combinations from all participating departments:*

- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*
- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

## **Rationale for Proposed Concentration**

*Describe the rationale for offering this new concentration and having it on the transcript, how it will enhance the quality of the existing major, how it relates to graduate programs at peer institutions. Also describe what distinguishes this new concentration within the existing major(s) in the degree program, the degree of its overlap with existing majors and concentrations (both in the degree program and in other degree programs at the university), and a justification for any such overlap.*

The Department of Pharmaceutical Outcomes and Policy offers an M.S.P. program that is available either online, or on-campus. In terms of University taxonomy, it is as follows:

Master of Science in Pharmacy | Major in Pharmaceutical Sciences | Concentration in Pharmaceutical Outcomes and Policy

Up to now, the online and on-campus programs have shared this same major, degree, and concentration. However, the on-campus and online programs have evolved in focus areas, coursework, and target audiences over the years. At this point, the department feels that the two programs are sufficiently different and should no longer share the same concentration. See attachment 1 for a summary of some key differences between the two programs.

The department is now proposing that the on-campus M.S.P. program should continue using the current concentration, Pharmaceutical Outcomes and Policy, while the online program should create new concentrations for each of the four specialty areas offered, which include:

- Pharmacoeconomics
- Managed Care Pharmacy
- Pharmaceutical Policy
- Pharmaceutical Value Communications

We are submitting four separate proposals, each establishing one of these new concentrations.

In this proposal, we propose creating a new graduate concentration in Pharmacoeconomics. Our curriculum for this concentration is identical to the current curriculum that students take in our program, if they are specializing in Pharmacoeconomics. (See attachment 2.) To be clear, the establishment of the new graduate concentration will simply formalize the specialty by “elevating” that specialty to the level of a concentration. We believe this will be helpful to alumni when they are job-seeking, because the more specific graduate concentration will allow them to be clear about their specific area of expertise within the wider field of Pharmaceutical Outcomes and Policy.

Our department currently offers graduate certificates in each of the specialty areas. We would like to continue offering the certificates (15 cr.), which are primarily intended for

students who want to complete a shorter program of study, rather than the 33 cr. M.S.P. degree program. We realize, though, that there may be students who enter the program as a certificate student, but later decide to apply for the M.S.P. program. Likewise, there may be students who enter as a M.S.P. student but later decide to drop-out of the M.S.P., and complete only the graduate certificate. Please see attachment 3 for our proposed policy for handling these situations.

### **Impacts on Other Programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

The only impact we can foresee is to clarify which programs/concentrations are available on- campus vs. online.

We have been offering the pharmacoeconomics specialty curriculum for several years as a sub- specialization within the of Pharmaceutical Outcomes and Policy concentration. This proposal formalizes the specialty to the level of a graduate concentration.

**Attachment 1: Summary of key differences between Online and On-campus M.S.P. programs offered in the Department of Pharmaceutical Outcomes & Policy**

	<u>Online M.S.P. degree program</u>	<u>On-campus M.S.P. degree program</u>
Overall Focus	Application of real-world skills and knowledge	Research, and preparation for doctoral study (for appropriate students)
Program length	Part time, 33 credits (2 years)	Full time, 36 credits (2 years)
Areas of specialty	<ul style="list-style-type: none"> <li>• Pharmacoconomics</li> <li>• Managed Care Pharmacy</li> <li>• Pharmaceutical Policy</li> <li>• Pharmaceutical Value Communications</li> </ul>	<ul style="list-style-type: none"> <li>• Pharmacoepidemiology and Safety Sciences</li> <li>• Pharmacoconomics and Outcomes Research</li> <li>• Pharmaceutical Health Services Research</li> </ul>
Tuition	Market rate tuition: \$750/credit, regardless of residency.	Standard UF Graduate tuition rate for in-state, out-of-state residents.
Student start date	Fall or Spring	Fall
Culminating experience	Capstone course (PHA 6279), which involves creation of a final project or paper	Master's thesis
Website	<a href="https://onlinepop.pharmacy.ufl.edu/">https://onlinepop.pharmacy.ufl.edu/</a>	<a href="https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/">https://pop.pharmacy.ufl.edu/education/residential-ms-degree/ms-program-outline/</a>

## **Attachment 2: Proposed curriculum for the Pharmacoeconomics concentration**

**Unless otherwise indicated, all courses are letter graded.**

### **Coursework completed by all M.S.P. students (18 cr.)**

All students in the Online M.S.P. program in Pharmaceutical Outcomes & Policy will complete the same core coursework of 12 cr., and will take 6 cr. of electives, as follows:

#### Core coursework – 12 cr.

PHA 6186: POP Foundations I – 3 cr.

PHA 6187: POP Foundations 2 – 3 cr.

PHA 6741: Writing for POP– 3 cr.

PHA 6279: POP Capstone– 3 cr. – S/U graded

#### Electives – 6 cr.

Students may choose to take any graduate courses offered in the Online POP program as electives.

### **Coursework for Pharmacoeconomics concentration (15 cr.)**

PHA 6246: Pharmaceutical Health Technology Assessment – 3 cr.

PHA 6283: Introduction to Pharmacoeconomics – 3 cr.

PHA 6795: Quant Methods in Evidence-Based Pharmacy – 3 cr

PHA 6806: Pharmacoeconomic Modelling – 3 cr.

PHA 6286: Pharmaceutical Microeconomics – 3 cr.

Total degree credits: 33

Attachment 3: Proposed policy for students who wish to change from graduate certificate to M.S.P., or from M.S.P. to graduate certificate

	<p>Student wishes to change from: Certificate to M.S.P.  (We expect this will happen fairly frequently.)</p>	<p>Student wishes to change from: M.S.P. to Certificate  (We expect this will be a rare occurrence.)</p>
<p>Student has completed all required coursework for the graduate certificate</p>	<p>Student is eligible to earn the certificate, and can apply for the M.S.P. program.</p>	<p>Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the certificate can be conferred.</p>
<p>Student has <b>not</b> completed all required coursework for the graduate certificate</p>	<p>Student will apply to the M.S.P., and if accepted, their enrollment in the certificate will be inactivated.</p>	<p>Handled on a case-by-case basis, and will require consultation with the Graduate School. In most cases, we plan to inactivate the student from the M.S.P. program, and then enroll them in the certificate program, so that the student can complete remaining certificate coursework. Certificate will be awarded upon completion.</p>

## Concentration | Modify for request 18771

### Info

**Request:** Modify the curriculum for the graduate concentration in Health Services Research

**Description of request:** The College of Public Health and Health Professions seeks to modify the curriculum for the Doctor of Philosophy with a major in Public Health and a concentration in Health Services Research

**Submitter:** Francesca Tai frankiet@ufl.edu

**Created:** 3/14/2024 3:18:10 PM

**Form version:** 11

### Responses

#### Degree Level

*Indicate the degree level in which the concentration is offered.*

D - Doctoral Degree

#### Thesis or Non-Thesis

*Is this concentration for a thesis or non-thesis degree?*

Thesis

#### Concentration

*Enter the name of the concentration to be modified.*

Health Services Research

#### Effective Term

*Enter the term (semester and year) at which the modification should be effective.*

Fall

#### Effective Year

2024

#### Is this an undergraduate Innovation Academy Program

No

#### Department/Degree/Majors to Offer Concentration

*List all the department / degree / major combinations at the degree level offering the concentration.*

Public Health and Health Professions / Doctor of Philosophy (Ph.D.) / with a major in Public Health and a concentration in Health Services Research

*For example, if you are requesting a change to the "Wetland Sciences" concentration at the master's level, you would need to list all master's level degree / major combinations from every participating department:*

- *Forest Resources and Conservation: M.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.S. in Forest Resources and Conservation*
- *Forest Resources and Conservation: M.F.A.S. in Fisheries and Aquatic Sciences*
- *Forest Resources and Conservation: M.F.R.C. in Forest Resources and Conservation*
- *Geography: M.A in Geography*
- *Geography: M.S. in Geography*
- *Geological Sciences: M.S. in Geology*
- *Geological Sciences: M.S.T. in Geology*

### **Current Curriculum for Concentration**

#### PUBLIC HEALTH CORE COURSES

- PHC 6600 Foundations of Public Health (0 credits)
- HSA 6114 Health Care System and Policy (3 credits)
- PHC 6001 Principles of Epidemiology in Public Health (3 credits)
- PHC 6313 Environmental Health Concepts in Public Health (3 credits)
- PHC 6410 Psychological, Behavioral & Social Issues in Public Health (3 credits)
- PHC 6052 Introduction to Biostatistical Methods (3 credits)

#### QUANTITATIVE METHODS AND STATISTICS

- PHC 6053 Regression Methods for the Life Sciences (3 credits)
- PHC 6937 Public Health Research Methods (3 credits)
- Choose two between:
  - PHC 6022 Design & Conduct of Clinical Trials (3 credits)
  - PHC 6059 Intro Survival Analysis (3 credits)
  - PHC 6089 Public Health Computing (3 credits)
  - PHC 6711 Measure in Epi and Outcomes Research (3 credits)
  - PHC 7595 Intro to Molecular Epidemiology (3 credits)

#### HEALTH SERVICE RESEARCH CORE COURSES

- HSA 6152 Health Policy (3 credits)
- HSA 6436 Health Economics (3 credits)
- HSA 7106 Health Care Access & Utilization (3 credits)
- HSA 7708 Health Services Research Methods II (3 credits)
- Choose one between:
  - PHC 6937 Social Stratification (3 credits)
  - PHC 6016 Social Epidemiology (3 credits)
  - HSA 7759 Quality & Outcomes in HSR (3 credits)
  - PHC 6716 Survey Research Methods (3 credits)



Electives to be chosen by student/advisor (15 credits)

#### PROFESSIONAL ISSUES

HSA 6911 Research Seminar and Journal Club in HSR (0,1 credit S/U)

PHC 6707 Finding Health Research Info & Communicating (1 credit)

PHC 7427 Ethics in Population Science (2 credits)

Choose one between:

PET 5936 Grant Writing (3 credits)

PHC 7727 Grant Writing for Pop Health Research (2 credits)

#### TEACHING & RESEARCH

RSD 6900 College Classroom Teaching (3 credits)

PHC 7979 Supervised Research for Dissertation Proposal (1-12 credits S/U)

PHC 7980 Research for Doctoral Dissertation (1-9 credits S/U)

All courses are letter graded otherwise noted.

#### **Proposed Concentration Changes**

*Describe the proposed changes to the concentration. If requesting a name change please provide details here as well.*

We are replacing PHC 6937 Public Health Research Methods with HSA 7XXX Health Services Research Methods II (Approval #18749) during the fall semester of the second year of the plan of study.

#### **Pedagogical Rationale/Justification**

*Describe the rationale for the proposed changes to the concentration.*

The methods that will be taught in this course better serve the needs of the HSR PhD students and better prepares them for HSA 7708 Health Services Research Methods II which is taken in the spring semester of the second year of the plan of study. This course will better prepare the students for the quantitative methods questions asked in the qualifying exam.

#### **Impacts on other programs**

*Describe any potential impact on other programs or departments, including increased need for general education or common prerequisite courses, or increased need for required or elective courses outside of the existing program.*

None

#### **Assessment Data Review**

*Describe the Student Learning Outcomes and/or program goal data that was reviewed to support the proposed changes.*

Dr. Jo, who teaches HSA 7708 Health Services Research Methods II, has observed that students often did not have the prerequisite methods needed to take her class and thus

were inadequately prepared. Some students have needed to take an Incomplete grade and required extra time to complete the coursework for HSA 7708. During the grading of the quantitative methods section of the qualifying exam, some students provided inadequate responses. Therefore, the faculty decided that a new course, Health Services Research Methods I, was needed that was tailored to address these inadequacies. Our department has hired a new faculty member, Dr. Yenan Zhu, who is qualified to teach this new course.

**Academic Learning Compact and Academic Assessment Plan**

*Describe the modifications to the Academic Assessment Plan that result from the proposed change.*

None

**Catalog Copy**

*Submitter agrees to prepare and upload document showing the catalog copy with the current and proposed curricula edited using the “track changes” feature in Word.*

Yes

Curriculum modification for the graduate concentration in  
Health Services Research

Current Requirements	Proposed Requirements
All courses are letter graded otherwise noted	All courses are letter graded otherwise noted
<p><b>PUBLIC HEALTH CORE COURSES</b></p> <p>PHC 6600 Foundations of Public Health (0 credits)</p> <p>HSA 6114 Health Care System and Policy (3 credits)</p> <p>PHC 6001 Principles of Epidemiology in Public Health (3 credits)</p> <p>PHC 6313 Environmental Health Concepts in Public Health (3 credits)</p> <p>PHC 6410 Psychological, Behavioral &amp; Social Issues in Public Health (3 credits)</p> <p>PHC 6052 Introduction to Biostatistical Methods (3 credits)</p>	<p><b>PUBLIC HEALTH CORE COURSES</b></p> <p>PHC 6600 Foundations of Public Health (0 credits)</p> <p>HSA 6114 Health Care System and Policy (3 credits)</p> <p>PHC 6001 Principles of Epidemiology in Public Health (3 credits)</p> <p>PHC 6313 Environmental Health Concepts in Public Health (3 credits)</p> <p>PHC 6410 Psychological, Behavioral &amp; Social Issues in Public Health (3 credits)</p> <p>PHC 6052 Introduction to Biostatistical Methods (3 credits)</p>
<p><b>QUANTITATIVE METHODS AND STATISTICS</b></p> <p>PHC 6053 Regression Methods for the Health and Life Sciences (3 credits)</p> <p>PHC 6937 Public Health Research Methods (Special Topics) (3 credits)</p> <p><b>Choose two between:</b> PHC 6022 Design and Conduct of Clinical Trials (3 credits)</p> <p>PHC 6059 Introduction to Applied Survival Analysis (3 credits)</p> <p>PHC 6089 Public Health Computing (3 credits)</p>	<p><b>QUANTITATIVE METHODS AND STATISTICS</b></p> <p>PHC 6053 Regression Methods for the Health and Life Sciences (3 credits)</p> <p><b>HSA 7XXX Health Services Research Methods I (3 credits) (Approval #18749)</b></p> <p><b>Choose two between:</b> PHC 6022 Design and Conduct of Clinical Trials (3 credits)</p> <p>PHC 6059 Introduction to Applied Survival Analysis (3 credits)</p> <p>PHC 6089 Public Health Computing (3 credits)</p>

<p>PHC 6711 Measure in Epidemiology and Outcomes Research (3 credits)</p> <p>PHC 7595 Introduction to Molecular Epidemiology (3 credits)</p>	<p>PHC 6711 Measure in Epidemiology and Outcomes Research (3 credits)</p> <p>PHC 7595 Introduction to Molecular Epidemiology (3 credits)</p>
<p><b>HEALTH SERVICE RESEARCH COURSES</b></p> <p>HSA 6152 Overview of U.S. Health Policy (3 credits)</p> <p>HSA 6436 Health Economics (3 credits)</p> <p>HSA 7106 Seminar in Health Care Access &amp; Utilization (3 credits)</p> <p>HSA 7708 Health Services Research Methods II (3 credits)</p> <p><b>Choose one between:</b></p> <p>PHC 6937 Social Stratification (Special Topics in Public Health) (3 credits)</p> <p>PHC 6016 Social Epidemiology in Public Health (3 credits)</p> <p>HSA 7759 Quality &amp; Outcomes in Health Services Research (3 credits)</p> <p>PHC 6716 Survey Research Methods (3 credits)</p>	<p><b>HEALTH SERVICE RESEARCH COURSES</b></p> <p>HSA 6152 Overview of U.S. Health Policy (3 credits)</p> <p>HSA 6436 Health Economics (3 credits)</p> <p>HSA 7106 Seminar in Health Care Access &amp; Utilization (3 credits)</p> <p>HSA 7708 Health Services Research Methods II (3 credits)</p> <p><b>Choose one between:</b></p> <p>PHC 6937 Social Stratification (Special Topics in Public Health) (3 credits)</p> <p>PHC 6016 Social Epidemiology in Public Health (3 credits)</p> <p>HSA 7759 Quality &amp; Outcomes in Health Services Research (3 credits)</p> <p>PHC 6716 Survey Research Methods (3 credits)</p>
<p><b>Electives to be chosen by student/advisor (15 credits)</b></p> <p><b>PROFESSIONAL ISSUES</b></p> <p>HSA 6911 Research Seminar in Health Services Research (0,1 credit S/U)</p> <p>PHC 6707 Health Research Information and Communicating Science (1 credit)</p> <p>PHC 7427 Ethics in Population Science (2 credits)</p>	<p><b>Electives to be chosen by student/advisor (15 credits)</b></p> <p><b>PROFESSIONAL ISSUES</b></p> <p>HSA 6911 Research Seminar in Health Services Research (0,1 credit S/U)</p> <p>PHC 6707 Health Research Information and Communicating Science (1 credit)</p> <p>PHC 7427 Ethics in Population Science (2 credits)</p>

<p><b>Choose one between:</b>          PET 5936 Grant Writing (Special Topics) (3 credits)</p> <p>PHC 7727 Grant Writing for Population Health Research (2 credits)</p> <p><b>TEACHING &amp; RESEARCH</b></p> <p>RSD 6900 College Classroom: Teaching Process and Practice (3 credits)</p> <p>PHC 7979 Advanced Research (Supervised Research for Dissertation Proposal) (1-12 credits S/U)</p> <p>PHC 7980 Research for Doctoral Dissertation (1-9 credits S/U)</p>	<p><b>Choose one between:</b>          PET 5936 Grant Writing (Special Topics) (3 credits)</p> <p>PHC 7727 Grant Writing for Population Health Research (2 credits)</p> <p><b>TEACHING &amp; RESEARCH</b></p> <p>RSD 6900 College Classroom: Teaching Process and Practice (3 credits)</p> <p>PHC 7979 Advanced Research (Supervised Research for Dissertation Proposal) (1-12 credits S/U)</p> <p>PHC 7980 Research for Doctoral Dissertation (1-9 credits S/U)</p>
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## Major | Modify\_Curriculum for request 19408

### Info

**Request:** Update list of major courses: Sustainable Development, African Studies, Latin American Studies

**Description of request:** The College of Liberal Arts and Sciences seeks to modify the curriculum for the Master of Sustainable Development Practice (M.D.P.) with a major in Sustainable Development Practice.

**Submitter:** Andrew Noss anoss@ufl.edu

**Created:** 3/6/2024 4:14:21 PM

**Form version:** 4

### Responses

#### Major Name

*Enter the name of the major. Example: "Mathematical Modeling"*

Sustainable Development Practice

#### Major Code

*Enter the two-letter or three-letter major code.*

SDP

#### Degree Program Name

*Enter the name of the degree program in which the major is offered.*

Master of Sustainable Development Practice

#### Undergraduate Innovation Academy Program

*Is this an undergraduate program in the Innovation Academy?*

No

#### Effective Term

*Enter the term (semester and year) that the curriculum change would be effective.*

Earliest Available

#### Effective Year

Earliest Available

#### Current Curriculum for Major

<https://gradcatalog.ufl.edu/graduate/degrees/>

## Master of Sustainable Development Practice (M.D.P.)

- Sustainable Development Practice o Climate Science

### Master of Sustainable Development Practice Degree Requirements

The Master of Sustainable Development Practice (M.D.P.) at the University of Florida prepares development practitioners to address development challenges in creative and dynamic ways. The UF M.D.P. integrates the academic and development pillars of natural sciences, social sciences, health sciences and integrated management skills into a vigorous and innovative program curriculum.

The M.D.P. Degree requires 45 credits of course work, including 24 core credits and 21 elective credits, the latter through which a student focuses on a specialization (for example, entrepreneurship, agriculture, ecotourism, gender, community forest management, nonprofits, or M&E). The M.D.P. Program is a non-thesis degree. Each student must successfully complete a set of requirements, including a summer field practicum, the development of a poster presented in a public poster session, a final practicum report approved by their committee, and a public presentation and private defense with committee members of the final report. All students will be expected to meet defined learning outcome objectives, integrating knowledge, skills and desired professional behavior.

All admission and graduation requirements of the Graduate School must be met. Students are required to develop a study plan approved by the M.D.P. program Graduate Coordinator and by their supervisory committee. Please visit the M.D.P. Program website for additional information on the M.D.P. degree and curriculum <http://mdp.africa.ufl.edu/>.

<https://gradcatalog.ufl.edu/graduate/colleges-departments/liberal-arts-sciences/center-latin-american-studies/sustainable-development-practice/#text>

### Sustainable Development Practice graduate

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- Student Learning Outcomes

Program Information Director: G. Galloway

Program Coordinator: A. Noss

The Master of Sustainable Development Practice (MDP) Program offers the following academic programs:

- An interdisciplinary Master's degree in Sustainable Development Practice (MDP)

- A graduate certificate in Sustainable Development Practice (SDP)

The MDP Program is jointly administered by the Center for Latin American Studies and the Center for African Studies. The Master's degree is described in the Other Master's Degrees section of the Graduate Catalog.

The MDP prepares development practitioners to address development challenges in creative and dynamic ways, integrating the academic and development pillars of natural sciences, social sciences, health sciences and management through a vigorous and innovative program curriculum. The MDP Degree requires 45 credits of course work: 24 major or core credits across the four pillars, and 21 elective credits through which a student focuses on a specialization (for example entrepreneurship, agriculture, ecotourism, gender, community forest management, nonprofits, or M&E). The MDP is a non-thesis degree. Each student must successfully complete a set of requirements including a summer field practicum with a host organization, the development of a poster presented in a public poster session, a final practicum report approved by their committee, and a public presentation and private defense with committee members of the final report. All students will be expected to meet learning outcome objectives defined for knowledge, skills and professional behavior. Students are required to develop a study plan approved by the MDP Program Graduate Coordinator and by their supervisory committee.

MDP major or core courses are listed under the listings for Sustainable Development Courses, African Studies Courses, and Latin American Studies Courses. Please visit the MDP program's website for additional information on the SDP certificate, MDP degree and curriculum, including detailed course descriptions and syllabi:  
<http://mdp.africa.ufl.edu>.

Degrees Offered with a Major in Sustainable Development Practice

- Master of Sustainable Development Practice
  - o without a concentration
  - o concentration in Climate Science

Requirements for these degrees are given in the Graduate Degrees section of this catalog.

Sustainable Development Courses:

AEB 6933 Special Topics

AFS 6062 Design and Methods for Sustainable Development Practice

AFS 6303 Development Administration

AFS 6346 Conservation and Development Practicum

AFS 6905 Individual Work in African Studies

AGR 5277C Tropical Crop Production

EVR 5705 Natural Resources and Innovation Systems

LAS 6046 Development Administration

LAS 6047 Conservation and Development Practicum

LAS 6049 Design and Methods for Sustainable Development Practice

LAS 6291 Conservation and Development Skills

LAS 6938 Seminar in Modern Latin American Studies

LAS 6943 Development Theory and Practice in Latin America



PHC 6445 Global Public Health and Development II

PHC 6764 Global Public Health and Development I

African Studies Courses:

AFH 5934 Topics in African History

AFH 6259 Seminar in Modern Africa

AFH 6805 Theo/Met African His

AFH 6934 Africa

AFS 5061 Africana Bibliography

AFS 6060 Research Problems in African Studies

AFS 6062 Design and Methods for Sustainable Development Practice

AFS 6303 Development Administration

AFS 6305 Development Theory and Practice Intro

AFS 6307 Foundations of Economics for Sustainable Development

AFS 6346 Conservation and Development Practicum

AFS 6905 Individual Work in African Studies

Latin American Studies Courses:

FOT 6941 Translation Studies Practicum

INR 6708 Foundations of Economics for Sustainable Development

LAS 6046 Development Administration

LAS 6047 Conservation and Development Practicum

LAS 6049 Design and Methods for Sustainable Development Practice

LAS 6220 Issues and Perspectives in Latin American Studies

LAS 6290 Tropical Conservation and Development

LAS 6291 Conservation and Development Skills

LAS 6292 Tropical Conservation and Development Research Methods

LAS 6293 Design and Methods of Research in Latin American Studies

LAS 6295 Latin American Business Environment

LAS 6905 Individual Work

LAS 6938 Seminar in Modern Latin American Studies

LAS 6941 Tropical Conservation and Development Practicum

LAS 6943 Development Theory and Practice in Latin America

LAS 6949 Internship in Latin American Studies

LAS 6971 Research for Master's Thesis

**Proposed Curriculum Changes**

*Describe the proposed changes to the curriculum. You may list out the specific changes or provide the new semester models where changes are proposed. Please be precise and clear in stating requested changes. If the change is to offer the program through UF Online, please explain and attach a letter of support from the Director of UF Online.*

Sustainable Development Courses: Proposed

--Remove all AFS courses (AFS 6062, AFS 6303, AFS 6346, AFS 6905) because they are included on African Studies Courses list below.

--Remove all LAS courses (LAS 6046, LAS 6047, LAS 6049, LAS 6291, LAS 6938, LAS 6943) because they are included on Latin American Studies Courses list below.

- Add GEO 6408: Parks and People (3 Credits; Letter-Graded)
- Add PHC 6313: Environmental Health Concepts in Public Health (2-3 Credits; Letter-Graded)
- Add PHC 6404: Gender, Sexuality, and Health (3 Credits; Letter-Graded)
- Add PHC 6410: Psychological, Behavioral, and Social Issues in Public Health (3 Credits; Letter-Graded)
- Add PHC 6704: Community-Based Participatory Research (3 Credits; Letter-Graded)
- Add SWS 5551: Soils, Water, and Public Health (3 Credits; Letter-Graded)

Sustainable Development Courses: Proposed

- AEB 6933 Special Topics (1-6 Credits; Letter-Graded)
- AGR 5277C Tropical Crop Production (3 Credits; Letter-Graded)
- EVR 5705 Natural Resources and Innovation Systems (3 Credits; Letter-Graded)
- GEO 6408 Parks and People (3 Credits; Letter-Graded)
- PHC 6313 Environmental Health Concepts in Public Health (2-3 Credits; Letter-Graded)
- PHC 6404 Gender, Sexuality, and Health (3 Credits; Letter-Graded)
- PHC 6410 Psychological, Behavioral, and Social Issues in Public Health (3 Credits; Letter-Graded)
- PHC 6445 Global Public Health and Development II (3 Credits; Letter-Graded)
- PHC 6704 Community-Based Participatory Research (3 Credits; Letter-Graded)
- PHC 6764 Global Public Health and Development I (3 Credits; Letter-Graded)
- SWS 5551 Soils, Water, and Public Health (3 Credits; Letter-Graded)

African Studies Courses: Proposed

- Add AFS 6306: Gender and Empowerment in Development (3 Credits; Letter-Graded)

African Studies Courses: Proposed

- AFH 5934 Topics in African History (3 Credits; Letter-Graded)
- AFH 6259 Seminar in Modern Africa (3 Credits; Letter-Graded)
- AFH 6805 Theo/Met African His (3 Credits; Letter-Graded)
- AFH 6934 Africa (3 Credits; Letter-Graded)
- AFS 5061 Africana Bibliography (1 Credit; Letter-Graded)
- AFS 6060 Research Problems in African Studies (3 Credits; Letter-Graded)
- AFS 6062 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)
- AFS 6303 Development Administration (3 Credits; Letter-Graded)
- AFS 6305 Development Theory and Practice Intro (3 Credits; Letter-Graded)
- AFS 6306: Gender and Empowerment in Development (3 Credits; Letter-Graded)
- AFS 6307 Foundations of Economics for Sustainable Development (3 Credits; Letter-Graded)
- AFS 6346 Conservation and Development Practicum (3 Credits; Letter-Graded)
- AFS 6905 Individual Work in African Studies (1-3 Credits; Letter-Graded)

Latin American Studies Courses: Proposed

- Add LAS 6045: Gender and Empowerment in Development (3 Credits; Letter-Graded)

Latin American Studies Courses: Proposed

FOT 6941 Translation Studies Practicum (3 Credits; Letter-Graded)  
INR 6708 Foundations of Economics for Sustainable Development (3 Credits; Letter-Graded)  
LAS 6045: Gender and Empowerment in Development (3 Credits; Letter-Graded)  
LAS 6046 Development Administration (3 Credits; Letter-Graded)  
LAS 6047 Conservation and Development Practicum (3 Credits; Letter-Graded)  
LAS 6049 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)  
LAS 6220 Issues and Perspectives in Latin American Studies (3 Credits; Letter-Graded)  
LAS 6290 Tropical Conservation and Development (3 Credits; Letter-Graded)  
LAS 6291 Conservation and Development Skills (3 Credits; Letter-Graded)  
LAS 6292 Tropical Conservation and Development Research Methods (3 Credits; Letter-Graded)  
LAS 6293 Design and Methods of Research in Latin American Studies (3 Credits; Letter-Graded)  
LAS 6295 Latin American Business Environment (2 Credits; Letter-Graded)  
LAS 6905 Individual Work (1-3 Credits; Letter-Graded)  
LAS 6938 Seminar in Modern Latin American Studies (3 Credits; Letter-Graded)  
LAS 6941 Tropical Conservation and Development Practicum (3 Credits; S/U)  
LAS 6943 Development Theory and Practice in Latin America (3 Credits; Letter-Graded)  
LAS 6949 Internship in Latin American Studies (1-6 Credits; S/U)  
LAS 6971 Research for Master's Thesis (1-15 Credits; S/U)

#### **UF Online Curriculum Change**

*Will this curriculum change be applied to a UF online program as well?*

No

#### **Pedagogical Rationale/Justification**

*Describe the rationale for the proposed changes to the curriculum.*

Currently we have multiple courses listed twice, first under Sustainable Development Courses and then again under African Studies or Latin American Studies.

To avoid this repetition, we propose to limit the Sustainable Development list to MDP "major credit" courses that are not AFS or LAS.

We then would like to add the following courses to the curriculum:

--our natural science pillar course Parks and People, taught by Brian Child, now has a permanent course number: GEO 6408. We propose to add it to the Sustainable Development list.

We would like to add a new course, developed for the MDP program, to the AFS and LAS lists: AFS 6306 / LAS 6045 Gender and Empowerment in Development Practice.

One of our two health pillar courses, PHC 6445, is not regularly taught anymore. We

propose therefore add to our Sustainable Development list four other PHC courses that are regularly offered and that are particularly relevant to Sustainable Development:

- PHC 6404: Sexuality, Gender & Public Health
- PHC 6410: Psychological, Social and Behavioral Issues in Public Health
- PHC 6313: Environmental Health Concepts in Public Health
- PHC 6704: Community-Based Participatory Research

Finally, we propose to add a fifth course for our health pillar, co-developed by Public Health and SWS, to our Sustainable Development list:

- SWS 5551: Soils, Water and Public Health

### **Impact on Enrollment, Retention, Graduation**

*Describe any potential impact of the curriculum changes on students who are currently in the major.*

Students currently in the major will be able to count several new and / or additional sustainable development courses towards their major requirements.

### **Assessment Data Review**

*Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.*

No changes are required to the SLOs:

SLO 1 Knowledge Outcome

Students will define, identify and describe complex interdisciplinary dimensions of sustainable development

SLO 2 Skills Outcome

Students will plan and utilize participatory methodologies and/or tasks related to the planning, implementation, monitoring and evaluation of development initiatives

SLO 3 Professional Behavior Outcome

Students will interface with professional peers with honesty, ethical behavior, cultural sensitivity, teamwork, and effective communication

### **Academic Learning Compact and Academic Assessment Plan**

*Describe the modifications to the Academic Learning Compact (for undergraduate programs) and Academic Assessment Plan that result from the proposed change.*

No modifications are required to the Academic Assessment Plan.

### **Catalog Copy**

*Submitter agrees to prepare and upload document showing the catalog copy with the current and proposed curricula edited using the "track changes" feature in Word.*

Yes

**Master of Sustainable Development Practice (M.D.P.) with a major in  
Sustainable Development Practice  
curriculum breakdown**

The MDP Degree requires 45 credits of course work: 24 major or core credits across the four pillars, and 21 elective credits through which a student focuses on a specialization.

<b>Current Requirements</b>	<b>Proposed Requirements</b>
<p><b>Sustainable Development Courses:</b></p> <p>AEB 6933 Special Topics (1-6 Credits; Letter-Graded)</p> <p>AFS 6062 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)</p> <p>AFS 6303 Development Administration (3 Credits; Letter-Graded)</p> <p>AFS 6346 Conservation and Development Practicum (3 Credits; Letter-Graded)</p> <p>AFS 6905 Individual Work in African Studies (1-3 Credits; Letter-Graded)</p> <p>AGR 5277C Tropical Crop Production (3 Credits; Letter-Graded)</p> <p>EVR 5705 Natural Resources and Innovation Systems (3 Credits; Letter-Graded)</p> <p>LAS 6046 Development Administration (3 Credits; Letter-Graded)</p> <p>LAS 6047 Conservation and Development Practicum (3 Credits; Letter-Graded)</p> <p>LAS 6049 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)</p> <p>LAS 6291 Conservation and Development Skills (3 Credits; Letter-Graded)</p> <p>LAS 6938 Seminar in Modern Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6943 Development Theory and Practice in Latin America (3 Credits; Letter-Graded)</p> <p>PHC 6445 Global Public Health and Development II (3 Credits; Letter-Graded)</p> <p>PHC 6764 Global Public Health and Development I (3 Credits; Letter-Graded)</p>	<p><b>Sustainable Development Courses: Proposed</b></p> <p>AEB 6933 Special Topics (1-6 Credits; Letter-Graded)</p> <p>AGR 5277C Tropical Crop Production (3 Credits; Letter-Graded)</p> <p>EVR 5705 Natural Resources and Innovation Systems (3 Credits; Letter-Graded)</p> <p>GEO 6408 Parks and People (3 Credits; Letter-Graded)</p> <p>PHC 6313 Environmental Health Concepts in Public Health (2-3 Credits; Letter-Graded)</p> <p>PHC 6404 Gender, Sexuality, and Health (3 Credits; Letter-Graded)</p> <p>PHC 6410 Psychological, Behavioral, and Social Issues in Public Health (3 Credits; Letter-Graded)</p> <p>PHC 6445 Global Public Health and Development II (3 Credits; Letter-Graded)</p> <p>PHC 6704 Community-Based Participatory Research (3 Credits; Letter-Graded)</p> <p>PHC 6764 Global Public Health and Development I (3 Credits; Letter-Graded)</p> <p>SWS 5551 Soils, Water, and Public Health (3 Credits; Letter-Graded)</p>

<p><b>African Studies Courses:</b></p> <p>AFH 5934 Topics in African History (3 Credits; Letter-Graded)</p> <p>AFH 6259 Seminar in Modern Africa (3 Credits; Letter-Graded)</p> <p>AFH 6805 Theo/Met African His (3 Credits; Letter-Graded)</p> <p>AFH 6934 Africa (3 Credits; Letter-Graded)</p> <p>AFS 5061 Africana Bibliography (1 Credit; Letter-Graded)</p> <p>AFS 6060 Research Problems in African Studies (3 Credits; Letter-Graded)</p> <p>AFS 6062 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)</p> <p>AFS 6303 Development Administration (3 Credits; Letter-Graded)</p> <p>AFS 6305 Development Theory and Practice Intro (3 Credits; Letter-Graded)</p> <p>AFS 6307 Foundations of Economics for Sustainable Development (3 Credits; Letter-Graded)</p> <p>AFS 6346 Conservation and Development Practicum (3 Credits; Letter-Graded)</p> <p>AFS 6905 Individual Work in African Studies (1-3 Credits; Letter-Graded)</p>	<p><b>African Studies Courses: Proposed</b></p> <p>AFH 5934 Topics in African History (3 Credits; Letter-Graded)</p> <p>AFH 6259 Seminar in Modern Africa (3 Credits; Letter-Graded)</p> <p>AFH 6805 Theo/Met African His (3 Credits; Letter-Graded)</p> <p>AFH 6934 Africa (3 Credits; Letter-Graded)</p> <p>AFS 5061 Africana Bibliography (1 Credit; Letter-Graded)</p> <p>AFS 6060 Research Problems in African Studies (3 Credits; Letter-Graded)</p> <p>AFS 6062 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)</p> <p>AFS 6303 Development Administration (3 Credits; Letter-Graded)</p> <p>AFS 6305 Development Theory and Practice Intro (3 Credits; Letter-Graded)</p> <p>AFS 6306: Gender and Empowerment in Development (3 Credits; Letter-Graded)</p> <p>AFS 6307 Foundations of Economics for Sustainable Development (3 Credits; Letter-Graded)</p> <p>AFS 6346 Conservation and Development Practicum (3 Credits; Letter-Graded)</p> <p>AFS 6905 Individual Work in African Studies (1-3 Credits; Letter-Graded)</p>
<p><b>Latin American Studies Courses:</b></p> <p>FOT 6941 Translation Studies Practicum (3 Credits; Letter-Graded)</p> <p>INR 6708 Foundations of Economics for Sustainable Development (3 Credits; Letter-Graded)</p> <p>LAS 6046 Development Administration (3 Credits; Letter-Graded)</p> <p>LAS 6047 Conservation and Development Practicum (3 Credits; Letter-Graded)</p> <p>LAS 6049 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)</p> <p>LAS 6220 Issues and Perspectives in Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6290 Tropical Conservation and Development</p>	<p><b>Latin American Studies Courses: Proposed</b></p> <p>FOT 6941 Translation Studies Practicum (3 Credits; Letter-Graded)</p> <p>INR 6708 Foundations of Economics for Sustainable Development (3 Credits; Letter-Graded)</p> <p>LAS 6045 Gender and Empowerment in Development (3 Credits; Letter-Graded)</p> <p>LAS 6046 Development Administration (3 Credits; Letter-Graded)</p> <p>LAS 6047 Conservation and Development Practicum (3 Credits; Letter-Graded)</p> <p>LAS 6049 Design and Methods for Sustainable Development Practice (3 Credits; Letter-Graded)</p>

<p>LAS 6291 Conservation and Development Skills (3 Credits; Letter-Graded)</p> <p>LAS 6292 Tropical Conservation and Development Research Methods (3 Credits; Letter-Graded)</p> <p>LAS 6293 Design and Methods of Research in Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6295 Latin American Business Environment (2 Credits; Letter-Graded)</p> <p>LAS 6905 Individual Work (1-3 Credits; Letter-Graded)</p> <p>LAS 6938 Seminar in Modern Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6941 Tropical Conservation and Development Practicum (3 Credits; S/U)</p> <p>LAS 6943 Development Theory and Practice in Latin America (3 Credits; Letter-Graded)</p> <p>LAS 6949 Internship in Latin American Studies (1-6 Credits; S/U)</p> <p>LAS 6971 Research for Master's Thesis (1-15 Credits; S/U)</p>	<p>LAS 6220 Issues and Perspectives in Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6290 Tropical Conservation and Development (3 Credits; Letter-Graded)</p> <p>LAS 6291 Conservation and Development Skills (3 Credits; Letter-Graded)</p> <p>LAS 6292 Tropical Conservation and Development Research Methods (3 Credits; Letter-Graded)</p> <p>LAS 6293 Design and Methods of Research in Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6295 Latin American Business Environment (2 Credits; Letter-Graded)</p> <p>LAS 6905 Individual Work (1-3 Credits; Letter-Graded)</p> <p>LAS 6938 Seminar in Modern Latin American Studies (3 Credits; Letter-Graded)</p> <p>LAS 6941 Tropical Conservation and Development Practicum (3 Credits; S/U)</p> <p>LAS 6943 Development Theory and Practice in Latin America (3 Credits; Letter-Graded)</p> <p>LAS 6949 Internship in Latin American Studies (1-6 Credits; S/U)</p> <p>LAS 6971 Research for Master's Thesis (1-15 Credits; S/U)</p>
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## Proposed IELTS Proficiency Scores for UF ITAs

TOEFL iBT Speaking (0–30)	IELTS Speaking (0–9)	ITA Language Proficiency Requirements
30	9	None
28	8.5*	
26	8*	EAP5836 concurrent with first semester of teaching duties
24	7.5*	
23	7*	
20	6.5*	No instructional assignment in GA duties
18	6*	
16	5.5*	
14	5*	
12	4.5	
0–11	0–4	

\* Indicates score comparison ranges with the highest degree of confidence, based on the analysis of 1,153 individuals who took both the TOEFL iBT test and the IELTS academic module (<https://www.ets.org/toefl/score-users/ibt/compare-scores.html>)

UF accepts IELTS Academic and TOEFL tests for international student admissions but only accepts TOEFL Speaking Scores or the UF administered SPEAK test to determine language eligibility for international graduate student teaching assistantships (ITAs). Because many international students take the IELTS Academic test rather than the TOEFL, and because score equivalencies are available, it would be appropriate to use both IELTS Academic and TOEFL speaking scores to determine language eligibility for UF teaching assistantships in addition to the SPEAK.

The chart above shows the comparison of the TOEFL iBT Speaking score to the IELTS Academic Speaking Bands from the ETS website. The blue line delineates UF language requirements for ITAs who take the TOEFL. By carrying that line over, we can set equivalent requirements for those students who have taken the IELTS Academic.

At a score of 28-30 in the TOEFL speaking scale, there are no additional language proficiency requirements for ITAs. To apply this to the IELTS Academic, there would be no additional language proficiency requirements for ITAs if their speaking band is 8.5-9.

At a score of 23-27 for the TOEFL Speaking, we require ITAs to enroll in EAP5836 concurrently with the first semester of teaching. The same requirement would apply to IELTS Academic examinees who score the bands 7-8.

Finally, a score on the TOEFL Speaking below 23 would preclude a student from certain types of TAs, so scores lower than 7 on the IELTS Academic would function in the same way.



Graduate Curriculum Committee  
Minutes

February 8, 2024  
Meeting Materials

Voting Conducted  
via Zoom

I. Presentation and review of the Minutes from the January Meeting of the Graduate Curriculum Committee (GCC).

II. Update(s) to the Committee: The following was reviewed by the Graduate Curriculum Committee (GCC) previously. The GCC felt further follow-up and/or clarifications were necessary before the proposals could move forward to the University Curriculum Committee (UCC). Suggestions and/or follow-up required are noted below the proposals.

There are no updates to present at this time.

III. Course Change Proposals: The following proposals are newly requested revisions to existing courses already within the current course catalog in curriculum inventory. The changes requested are listed below each of the proposals.

COP – Pharmacotherapy and Translational Research

1. PHA 6137 *Clinical Pharmacogenomics Implementations*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19464>

Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

IV. New 5XXX Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

There are no 5XXX courses to present at this time.

V. New Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

MED – Health Outcomes and Biomedical Informatics

1. GMS 6XXX *Foundations of Programming in Biomedical Studies*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19000>

Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

PHHP – Health Services Research, Management and Policy

2. PHC 6XXX      *Social Stratification and Health*

Link to proposal:      <https://secure.aa.ufl.edu/Approval/reports/19472>

Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

CLAS – Religion

3. RLG 5XXX      *Ethics after the Holocaust*

Link to proposal:      <https://secure.aa.ufl.edu/Approval/reports/17631>

Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

HHP – Sport Management

4. SPM 6XXX      *The Racquets Directorship*

Link to proposal:      <https://secure.aa.ufl.edu/Approval/reports/18965>

Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

5. SPM 7XXX      *Theories in Sport Management*

Link to proposal:      <https://secure.aa.ufl.edu/Approval/reports/19359>

Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

VI. Information Items:

1. [ANG 6186 Seminar in Archeology](#) – 19108 – Change maximum repeatable credit
2. [CAP 6137 Malware Reverse Engineering](#) – 18233 – Change pre- and co- requisites
3. [COP 5536 Advanced Data Structures](#) – 18232 – Change prerequisites
4. [GMS 6421 Cell Biology](#) – 19379 – Change Variable Credit
5. [MAE 6313 Problem Solving in School Mathematics](#) – 19097 – Change course description

Graduate Curriculum Committee

Agenda

March 14, 2024  
Meeting Materials

Voting Conducted  
via Mail-Vote

I. Presentation and review of the Minutes from the February Meeting of the Graduate Curriculum Committee (GCC).

II. Update(s) to the Committee: The following was reviewed by the Graduate Curriculum Committee (GCC) previously. The GCC felt further follow-up and/or clarifications were necessary before the proposals could move forward to the University Curriculum Committee (UCC). Suggestions and/or follow-up required are noted below the proposals.

There are no updates to present at this time.

III. Course Change Proposals: The following proposals are newly requested revisions to existing courses already within the current course catalog in curriculum inventory. The changes requested are listed below each of the proposals.

PHHP – Public Health

1. HSA 6855      *Internship in Health Administration*

Link to proposal:      <https://secure.aa.ufl.edu/Approval/reports/19606>

This is a request to change the credit hours from 5 to 1.

IV. New 5XXX Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

There are no 5XXX courses to present at this time.

V. New Course Proposal(s) (with attached syllabi): The following are newly requested course proposals. Proposed course titles and descriptions are listed below. Syllabi have been included with these new course requests, at the request of GCC Members.

ENG – Mechanical & Aerospace Engineering

1. EAS 6XXX      *Advanced Astrodynamics*

Link to proposal:      <https://secure.aa.ufl.edu/Approval/reports/19418>

Rigorous analysis of spacecraft motion using different dynamic models and perturbation methods. Development of analytical and computational tools to solve problems in astrodynamics.

2. EAS 6XXX *Robust and Adaptive Control for Aerospace Systems*  
Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19425>

Modern robust, optimal, and adaptive control theories that address flight control challenges for aerospace systems. Topics include robust servomechanism design, linear quadratic methods, optimal observer-based feedback, loop transfer recovery, multivariable frequency domain analysis, and guidance fundamentals.

3. EAS 6XXX *Spacecraft Attitude Dynamics*  
Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19417>

Rigorous development of theoretical concepts, analytical, mathematical procedures, and methods associated with defining, determining, and controlling the attitude of a spacecraft.

#### MED – Health Outcomes and Biomedical Informatics

4. GMS 6XXX *Qualitative Inquiry and Analysis in Intervention Development and Implementation*  
Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19587>

This course is targeted to graduate students whose training and research goals center on developing and implementing evidence-informed interventions. Students will learn about qualitative methodology in intervention design and implementation science. The course will be hands-on with lab or field activities, with a focus on approaches to thematic analysis (e.g., rapid analysis for implementation refinement; inductive analysis for sociocultural tailoring of interventions)

#### PHHP – Public Health

5. HSA 7XXX *Introduction to Health Services Research Methods I*  
Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/18749>

Health Services Research (HSR) Methods I introduces students to the fundamentals of methodologies that are commonly used in HSR, with topics that include the following: study conceptualization, development of research question, study design and its implication for analysis, fundamentals of data cleaning, management, and analysis, and result interpretation and communication.

#### COP – Medicinal Chemistry

6. PHA 6XXX *Advanced Applications in DNA*  
Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19590>

Advanced Applications in DNA would further explore advanced techniques in DNA analysis such as: advanced sampling techniques, Y-STR analysis, high throughput screening, Next Generation Sequencing (NGS), single nucleotide polymorphisms (SNPs) analysis, mitochondrial DNA, touch DNA, automation, and other new technologies relevant to forensic DNA analysis.

7. PHA 6XXX *Applied Statistics for Data Analysis*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19609>

Familiarize students with the procedures for using WWW resources for communication and educational purposes and to introduce students to the basic principles, concepts and terminology utilized in statistics.

COP – Pharmacotherapy and Translational Research

8. PHA 6XXX *Forensic Anthropology I*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19386>

Introduce the basic knowledge of human anatomy and osteology, including human remains recovery and laboratory processes that are required of a forensic anthropologist. Each module will substitute the hands-on experience typically found in a laboratory setting by presenting carefully selected photographs and illustrated materials that will familiarize students with the practice of the discipline.

9. PHA 6XXX *Precision Med & Pharmacogenomics Capstone*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19470>

This graduate capstone course represents the pinnacle of learning. Students are expected to recall information, synthesize their knowledge acquired throughout their course of study, and apply it in a comprehensive written final examination. The final summative assessment is designed to demonstrate mastery of the program's content.

COP – Medicinal Chemistry

10.PHA 6XXX *Principles of Drug Action & Development I*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19403>

Students will be able to comprehensively describe drug classes discussed in this course which will enable them to effectively communicate with other scientists, medical professionals, and management during the drug development process.

11.PHA 6XXX *Principles of Drug Action & Development II*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19402>

Learn how to predict the solubilities, structure-activity relationships, basic synthesis routes for selected structures, metabolism and pharmacological activity/potency of drug classes and individual members of classes based on the contribution of their functional groups to their structures. Antidiabetics, anticonvulsants, H1 and H2 antagonists, analgesics, nonsteroidal antiinflammatory drugs, hormones, antibiotics, antiviral agents, and antineoplastic agents are covered.

12.PHA 6XXX *The Toxicology of Licit & Illicit Drugs of Abuse*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19389>

Recognizing the symptoms of toxidromes early, providing adequate intervention and treatment to the patient, and ensuring the safety of those delivering care are critical components of this course. Following a brief recap of the basics of medical toxicology and toxidromes, the course will focus on the different classes of drugs, their commonly encountered abuse, treatment approaches, and legal components such as drug testing.

CALS – Wildlife Ecology and Conservation

13.WIS 6XXX *Stakeholder Engagement in Natural Resources*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19467>

This course introduces the concept of stakeholders and builds understanding of diverse perspectives of people that affect or are affected by natural resource decisions. The course also provides students with a variety of tools to engage with communities/groups for effective decision-making.

CLAS – Women’s Studies

14.WST 6XXX *Girlhood Studies*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19511>

Critically examines the construction of girlhood through social, political, economic, and cultural frameworks. Uses materials and methodologies from various disciplines to explore diverse experiences, challenges, and identities of girls from global and intersectional perspective. Presents complex intersections of gender, age, race, class, sexuality, and ability across diverse cultural and geographical contexts.

15.WST 6XXX *History of Women's Medicine*

Link to proposal: <https://secure.aa.ufl.edu/Approval/reports/19490>

Explores Western mainstream medicine (including psychology) and doctoring within the context of women's health during the nineteenth and twentieth centuries. Interdisciplinary approach appropriate for graduate students in various disciplines; course materials include primary and secondary texts from medicine, psychology, history, and gender studies.



VI. Information Items:

1. [CAP 5100](#) – 19027 – Change prerequisites
2. [CAP 5108](#) – 19043 – Change prerequisites
3. [CEN 5728](#) – 19042 – Change prerequisites
4. [CNT 5517](#) – 19028 – Change prerequisites
5. [EAS 6905](#) – 19421 – Change course title, description, variable credit, and repeatable credit
6. [ECO 6409](#) – 19588 – Change prerequisites
7. [EGS 6940](#) – 19457 – Change to course title and description
8. [ESI 6617](#) – 19013 – Change prerequisites
9. [GMS 6895](#) – 19452 – Change prerequisites

## Certificate | Close-Modify for request 19426

### Info

**Request:** Curriculum Modification for Graduate Certificate in Control Systems

**Description of request:** The College of Engineering seeks to modify the curriculum for the graduate certificate in Control Systems.

**Submitter:** Michael Griffis mwg@ufl.edu

**Created:** 2/20/2024 11:42:27 AM

**Form version:** 4

### Responses

#### Current Certificate Name

Control Systems

#### Effective Term

*Select the requested term and year that the certificate change(s) will first be implemented. Selecting "Earliest" will allow the change to be effective in the earliest term after full approval.*

Earliest Available

#### Effective Year

Earliest Available

#### Requested Action

Other (selecting this option will open additional form fields below)

#### Change Certificate Name?

No

#### Change Certificate Name on Transcript?

No

#### Change Credit Hours?

No

#### Change Certificate Description?

No

### **Change Certificate Prerequisites?**

No

### **Change Certificate Requirements?**

Yes

### **Current Requirements**

9 credit hours

Student must earn a grade of "B" or higher in each course for certificate completion

Required Coursework (3 credits)

EML 5311 Control System Theory, 3 Credits; Letter-graded

Elective Coursework (6 credits), Choose two of the following:

EML 6350 Introduction to Nonlinear Control, 3 Credits; Letter-graded

EML 6351 Nonlinear Control II: Adaptive Control, 3 Credits; Letter-graded

EML 6352 Optimal Estimation and Kalman Filtering, 3 Credits; Letter-graded

EML 6364 Optimal Control, 3 Credits; Letter-graded

EML 6573 Nonlinear Programming, 3 Credits; Letter-graded

EML 6048 Machine Learning and System Control, 3 Credits; Letter-graded

### **Proposed Requirements**

9 credit hours

Student must earn a grade of "B" or higher in each course for certificate completion

Required Coursework (3 credits)

EML 5311 Control System Theory, 3 Credits; Letter-graded

Elective Coursework (6 credits), Choose two of the following:

EML 6350 Introduction to Nonlinear Control, 3 Credits; Letter-graded

EML 6351 Nonlinear Control II: Adaptive Control, 3 Credits; Letter-graded

EML 6352 Optimal Estimation and Kalman Filtering, 3 Credits; Letter-graded

EML 6364 Optimal Control, 3 Credits; Letter-graded

EML 6573 Nonlinear Programming, 3 Credits; Letter-graded

EML 6048 Machine Learning and System Control, 3 Credits; Letter-graded

EAS 6XXX Robust and Adaptive Control for Aerospace Systems, 3 Credits; Letter-graded  
(Approval #19425)

### **Impact on Program**

There will be no adverse impact to the program. A new course is being added to modernize the aerospace component of the program

## Rationale for Proposed Change(s)

A new course is being added to provide aerodynamics examples to the program.

## Assessment Data Review

*Describe the Student Learning Outcome and/or program goal data that was reviewed to support the proposed changes.*

The course EML5311 has been the primary course used to evaluate the certificate. The other original, available courses have been used secondarily. At the last assessment, 100% of the students met the objective. Making EML5311 required is practical to support data gathering to consistently evaluate the certificate.

For reference, the student learning outcomes are (remain) as follows:

Each of the following will be quantitatively evaluated from select exam questions and/or simulation projects.

Knowledge

- An ability to demonstrate a broad knowledge of control systems relevant to practice in engineering systems.

Skills

- An ability to apply fundamental control systems methods to identify, analyze, and mathematically solve problems related to automation in engineering.
- An ability to use mathematics associated with control design and analysis to ensure stability and/or optimality.
- An ability to apply modern simulation tools to demonstrate the performance of control design principles in engineering applications.

## Academic Assessment Plan Changes

*Describe the modifications to the Academic Assessment Plan that result from the proposed change. These changes must be approved by the Academic Assessment Committee. A separate request must be completed for this, which can be found here:*

*<https://approval.ufl.edu/start-new-request/modify-aapslo-gradpro/>*

No changes.