GRADUATE COUNCIL AGENDA
AUGUST 15, 2024
1:00 PM

VIA ZOOM

I. ACTION ITEMS:

1. Minutes from the June 20, 2024, Graduate Council Meeting (Enclosure 1)

CERTIFICATES:

2. The College of Medicine seeks to modify the number of credit hours required for the graduate certificate in Medical Human Anatomy (#20111). Dr. Yehia Daaka will be present for discussion. (Enclosure 2)

3. The College of Medicine seeks to modify the number of credit hours required for the graduate certificate in Medical Anatomy and Physiology (#20112). Dr. Yehia Daaka will be present for discussion. (Enclosure 3)

CONCENTRATIONS:

4. The Warrington College of Business seeks to create a new concentration in Artificial Intelligence for the Master of Science (M.S.) degree with a major in Management (#20150). Mr. John Gresley will be present for discussion. (Enclosure 4)

5. The College of Health and Human Performance seeks to create a new concentration in Strength and Conditioning Practitioner for the Master of Science (M.S.) with a major in Applied Physiology and Kinesiology (#19399). Dr. Garrett Beatty will be present for discussion. (Enclosure 5)

6. The College of Pharmacy seeks to create a new online graduate concentration in Model-Informed Drug Development for the Master of Science in Pharmacy (M.S.P) with a major in Pharmaceutical Sciences (#20137). Dr. Tom Schmittgen and/or Dr. Oliver Grundmann will be present for discussion. (Enclosure 6)

MAJORS:

7. The College of Medicine seeks to modify the number of credit hours required for the Master of Science (M.S.) with a major in Anatomical Sciences Education (#19926). Dr. Yehia Daaka will be present for discussion. (Enclosure 7)

8. The College of Medicine seeks to modify the curriculum for the Master of Science (M.S.) with a major in Genetics and Genomics (#20153). Dr. Connie Mulligan and/or Dr. Tom Kelleher will be present for discussion. (Enclosure 8)

COMBINATION DEGREE:

9. The College of Pharmacy seeks to create a combination degree program between the Master of Science in Pharmacy (M.S.P) and the Doctor of Pharmacy (Pharm.D.) (#20043). Dr. Oliver Grundmann and Ms. Emely McKitrick will be present for discussion. (Enclosure 9)

II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:

10. Graduate Curriculum Committee – June Minutes (Enclosure 10)

11. English Language Proficiency Requirement for Admission (Enclosure 11)

12. Graduate Programs – Distance or Self-Supporting
    Pharmaceutical Outcomes and Policy had four concentrations approved for self-supporting status:
    - Managed Care Pharmacy
    - Pharmaceutical Policy
    - Pharmaceutical Value Assessment and Communications
    - Pharmacoeconomics

13. Graduate Student Success Center

GRADUATE COUNCIL MINUTES
JUNE 20, 2024
1:00 PM

TELECONFERENCE
VIA ZOOM

MEMBERS PRESENT: Dr. Nicole Stedman (Chair), Dr. Linda Bloom, Dr. Hitomi Greenslet, Dr. Corene Matyas, Dr. Connie Mulligan, Dr. K. Ramesh Reddy, Dr. Aner Sela, Dr. Marta Wayne, and Kevin Senior (GSC rep)

MEMBERS ABSENT: Dr. J.C. Bunch, Dr. James Essegbey, Dr. Kristin Larsen, Dr. Michael Martinez, Dr. Joni Williams Splett, and Jasleen Kaur (GSC alternate)

GUESTS PRESENT: Dr. Cheryl Gater (Associate Provost and Director), Dr. Oliver Grundmann (College of Pharmacy), Diana Hull (Office of the Registrar), Dr. Maria Leite (Academic Affairs), Dr. Johnathan Orsini (Office of the Provost/Teaching and Technology), Dr. Elizabeth Ross (College of the Arts), Dr. Elizabeth Palmer (College of Medicine), Dr. Peter Sayeski (College of Medicine), and Ashley Tidwell (Office of Admissions)

STAFF PRESENT: Megan Lewis, Dr. Talline Martins, Dr. Lerah Sutton, Frankie Tai (Recording), and Stacy Wallace

The meeting was called to order at 1:01 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 May 16, 2024, Graduate Council Meeting. A motion to approve was made, seconded, and passed unanimously.

CERTIFICATE:

2. The College of the Arts seeks to modify the number of credit hours required for the graduate certificate in Curatorial Studies (#19058). Dr. Elizabeth Ross 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 new concentration in Medical Pharmacology and Toxicology for the Master of Science (M.S.) with a major in Medical Sciences (#19940). Dr. Oliver Grundmann was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of fall 2024.

4. The College of Medicine seeks to modify the admissions requirements and change the name of the concentration in "Gerontology" to "Innovative Aging Studies" for the Master of Science (M.S.) with a major in Medical Sciences (#19946). Dr. Peter Sayeski was present (via Zoom) for discussion. The unit will work with the Graduate School to determine a plan of action for currently enrolled students. A motion to

approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

5. The College of Liberal Arts and Sciences seeks to close the concentration in Imaging Science and Technology for the Doctor of Philosophy (Ph.D.) with a major in Mathematics (#19562). Dr. Nicole Stedman was present (via Zoom) for discussion. It was confirmed that there are no active students enrolled. A motion to approve was made, seconded, and passed unanimously, with a proposed Termination Date of fall 2024 and a Phase-Out Date of fall 2024.

MAJOR:

6. The College of Medicine seeks to create a major in Artificial Intelligence in Biomedical and Health Sciences for the Master of Science (M.S.) (#19698). Dr. Elizabeth Palmer was present (via Zoom) for discussion. She explained that the program will have a clinical focus and be process/discovery oriented. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of spring 2025.

EXPIRATION OF FINAL EXAM POLICY:

7. Extending the expiration of the final exam from six months to three semesters, including the term in which the exam is taken. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of fall 2024.

II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:

8. Graduate Curriculum Committee – May Minutes and June Agenda (Enclosure 8)

9. Graduate Programs – Distance or Self-Supporting
   - Master of Arts in Mass Communication degree with a major in Mass Communication and a concentration in Digital Journalism and Multimedia Storytelling
   - Master of Science degree with a major in Medical Sciences with a concentration in Medical Anatomy and Physiology

10. Graduate Student Success Center
    Dr. Talline Martins shared the following updates:
    - The recruitment survey will be shared with colleges and departments soon.
    - The Graduate School is working on an overarching recruitment calendar that will be available on the UF Grad School webpage. This calendar will showcase where departments and colleges will be for the Fall 2024 recruitment season and will include both domestic and international opportunities.
    - The new Campus Visitation Program (CVP) dates are October 10-11. More information will be announced soon.

The meeting adjourned at 1:37 p.m.

Certificate|Close-Modify for request 20111

Info
Request: Change of total credit hours for Medical Human Anatomy Certificate
Description of request: The College of Medicine seeks to modify the number of credit hours required for the graduate certificate in Medical Human Anatomy.
Submitter: Yehia Daaka ydaaka@ufl.edu
Created: 7/3/2024 7:38:17 AM
Form version: 1

Responses
Current Certificate Name

Medical Human Anatomy Certificate

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.

Fall

Effective Year

2024

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?

Yes

Current Credit Hours

more than 12 (please detail in description how many credits)

Proposed Credit Hours

12

Change Certificate Description?

No

Change Certificate Prerequisites?

No

Change Certificate Requirements?

No

Impact on Program

No impact in enrollment or academic learning

Rationale for Proposed Change(s)

We ask to change the number of credit hours from 13 to 12. The requested change is based on modifying the total credit hours for one of the required courses GMS 5630 Medical Histology, from 4 to 3 credit hours, for which we have already received approval from the Graduate Curriculum Committee.

Assessment Data Review

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

We changed the previously required review sessions to optional. As a result, no change in student learning is anticipated.

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/

There is no change in the academic compact. The previous mandatory review sessions are now optional.

Certificate|Close-Modify for request 20112

Info
Request: Change credits for Medical Anatomy and Physiology graduate certificate
Description of request: The College of Medicine seeks to modify the number of credit hours required for the graduate certificate in Medical Anatomy and Physiology
Submitter: Yehia Daaka ydaaka@ufl.edu
Created: 8/7/2024 8:19:57 AM
Form version: 3

Responses
Current Certificate Name

Medical Anatomy and Physiology

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

2024

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?

Yes

Current Credit Hours

more than 12 (please detail in description how many credits)

Proposed Credit Hours

more than 12 (please detail in description how many credits)

Change Certificate Description?

No

Change Certificate Prerequisites?

No

Change Certificate Requirements?

No

Impact on Program

No impact on program enrollment or academics.

Rationale for Proposed Change(s)

We ask to change the number of credit hours from 16 to 15. The requested change is based on modifying the total credit hours for one of the required courses GMS 5630 Medical Histology from 4 to 3 credit hours, for which we have already received approval from the Graduate Curriculum Committee.

Assessment Data Review

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

We changed the previously required review sessions to optional. As a result, no change in student learning is anticipated.

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/

There is no change in the academic assessment plan. the previous mandatory review sessions are now optional.

Concentration|New for request 20150

Info
Request: New Concentration in Artificial Intelligence
Description of request: The Warrington College of Business seeks to create a new concentration in Artificial Intelligence for the Master of Science (M.S.) degree with a major in Management.
Submitter: Francesca Tai frankiet@ufl.edu
Created: 8/7/2024 1:00:31 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".

Artificial Intelligence

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).

10

Effective Term

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

Fall

Effective Year

2025

Students

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

25

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).

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.

Management: M.S. with a major in Management

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 Warrington College of Business (WCB) seeks to create a new graduate concentration in Artificial Intelligence (AI) for the Master of Science degree with a major in Management (MSM), which will be offered exclusively at the new UF graduate campus in Jacksonville.

The concentration in Artificial Intelligence is designed for working professional students from a variety of business functions (e.g., finance, accounting, marketing, human resources, supply chain, business strategy, etc.) and focuses on the use of the technology to improve business operations. Almost every business function will be transformed by AI and Analytics in the next few years. The concentration in Artificial Intelligence will enhance the quality of the existing major by providing students with in-depth knowledge, skills and tools related to a variety of AI business topics, allowing them to successfully manage their own careers and their organization's transformation.

Artificial Intelligence Graduate Concentration
Required Courses (10 credits). All courses are letter-graded.

- FIN 6779 Artificial Intelligence & Machine Learning Applications for Finance & FINTECH (2 credits)
- MAN 6930 Cyber & AI Governance in Business (2 credits)
- MAN 5502 Production & Operations Management (2 credits)
- MAR 6930 AI & Machine Learning Marketing Applications (2 credits)
- QMB 6317 Artificial Intelligence Methods in Business (2 credits)

The M.S.M. degree consists of 32 credits (22 core credits and 10 elective credits) designed to provide students with a solid business foundation. The Artificial Intelligence concentration courses will count as elective credit toward the M.S. degree. The special topics courses included in the concentration are regularly offered as elective courses and adding them in this concentration increases their likelihood for permanent course numbers.

While a few State University System of Florida institutions offer graduate degrees in business analytics and data science, the only institution offering a major, concentration or certificate focusing on artificial intelligence in business is the University of South Florida (USF). USF offers a Master of Science in Artificial Intelligence (AI) and Business Analytics.

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 MSM with a concentration in Artificial Intelligence will be offered exclusively at the new UF graduate campus in Jacksonville. Students in the UF Jacksonville MSM program will complete MSM core courses in Jacksonville through one of several options (in residence with faculty on site, via synchronous hybrid participation in courses offered from Gainesville, or online) and will complete the Artificial Intelligence concentration courses in residence in Jacksonville. All the MSM core courses are offered fully online and can accommodate additional demand from the MSM with a concentration in Artificial Intelligence with limited impact to the program. The Warrington College of Business is committed to offering the Artificial Intelligence concentration courses in residence in Jacksonville (refer to supporting documentation). Admissions requirements for this program will be similar to those of the on-campus and online M.S.M. programs in terms of an earned bachelor's degree from an accredited institution with a 3.0 upper division GPA. A GMAT/GRE score is not required. Differing from those programs students with a bachelor's degree in business and professional experience may apply to complement their understanding of AI concepts across business disciplines. Consideration for admission will be based on the combination of academic performance, work experience and professional references. This format and location will not be eligible for combination degree seeking students at launch in fall 2025 but may be re-evaluated as UF activities in Jacksonville expand and mature.

Since the student profile for the MSM with a concentration in Artificial Intelligence is very specific (e.g., working professionals in Jacksonville interested in Artificial Intelligence who wish to pursue a hybrid online/residential format), no major impact is expected on other UF WCB specialized master's programs. The only institution in the vicinity that offers a MS in Management under the same CIP code is University of North Florida. UF's proposed MSM with a concentration in Artificial Intelligence is distinctly different from UNF's degree. It contains a significant emphasis in Artificial Intelligence (AI) and Analytics and requires AI specific experiential learning where students work with companies to apply academic concepts. UF Jacksonville's urban and downtown location allows for a differentiated learning environment relative to UNF's traditional campus-based learning environment at UNF's southside location. The urban location enables the degree to target working professionals, allows for increased interaction with corporate partners, and provides proximity to applied learning opportunities and collaboration with partners in the downtown business community. UF Jacksonville will serve as an additional option to meet the growing demand for graduates looking to understand AI's impact on organizations and their rapid transformation. The capacity to meet the demand for these skills and talent is unmet in the current degree and educational environment in the Jacksonville area. UF has unparalleled faculty expertise in AI and Analytics and the unique HiPerGatorAI supercomputer resource. UF can offer an AI focused MS in Management program that few other universities can. The UF Jacksonville location will enable the WCB to extend UF's significant strengths in AI to the Jacksonville market and make Jacksonville a world-class hub for AI related business

programs and research. It also presents opportunities for future collaboration with other universities in the region to share that expertise. Given these differences, we do not expect that an MSM with the AI concentration will affect other general business MSM programs offered by other universities in the area.

Concentration|New for request 19399

Info
Request: New Graduate Concentration in "Strength and Conditioning Practitioner" for the M.S. - Applied Physiology & Kinesiology
Description of request: The College of Health and Human Performance seeks to create a new concentration in Strength and Conditioning Practitioner for the Master of Science (M.S.) with a major in Applied Physiology and Kinesiology.
Submitter: Garrett Beatty gbeatty@hhp.ufl.edu
Created: 7/10/2024 12:41:09 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".

Strength and Conditioning Practitioner

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).

30

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.

36

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?

No

All Department/Degree/Majors Adding Concentration

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

Applied Physiology & Kinesiology: M.S. in Applied Physiology & Kinesiology

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 Applied Physiology and Kinesiology (APK) proposes the creation of a new non-thesis concentration within the existing Master of Science in Applied Physiology and Kinesiology degree program. The "Strength and Conditioning Practitioner" concentration will prepare students to successfully earn the Certified Strength and Conditioning Specialist (CSCS) credential offered by the National Strength and Conditioning Association (NSCA). Eligibility to register for the CSCS exam will require completion of an accredited strength and conditioning education program starting in the year 2030. APK seeks to begin offering this new concentration in the 2024-25 academic year so that the Department may apply for accreditation from the Commission on the Accreditation of Strength and Conditioning Education (CASCE) during the same year. The current "Human Performance" non-thesis concentration will remain unchanged. The new concentration will consist 30 credit hours derived from a set of 9 specific courses: APK6116c (Physiological Bases of Exercise & Sport Sciences), APK6226c (Biomechanics of Human Motion), APK6167 (Nutrition Aspects of Human Performance, 3 credit hours), APK5404 (Sport Psychology, 3 credit hours), APK5177 (Strength and Conditioning for Beginning Practitioners, 3 credit hours), APK5702 (Applied Sport Science, 3 credit hours), APK6611 (Tactical Strength and Conditioning, 3 credit hours), PET6947(Graduate Internship in Exercise & Sport Sciences, 6 credit hours), and a proposed new course in Anatomy and Physiology (APK5XXX, 3 credit hours)(Approval #19943).

The concentration targets a distinct student population from those currently served within the existing MS APK degree program concentrations and there is no known overlap with other degrees offered across 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.

There are no anticipated impacts on other units / degree programs across the University.

PROGRAM OF STUDY

UF Department of Applied Physiology and Kinesiology
College of Health and Human Performance
UNIVERSITY of FLORIDA

Master of Science in Applied Physiology & Kinesiology – Strength & Conditioning Practitioner

Degree Requirements: 30 credit hours & Comprehensive Exam

Strength & Conditioning Practitioner Concentration

Lecture-based Courses (24 credit hours)				
Course Code	Course Title	Credit	Grade	Semester
APK5177	Strength and Conditioning for Beginning Practitioners	3		
APK5404	Sport Psychology	3		
APK5702	Applied Sport Science	3		
APK5XXX	Anatomy & Physiology for Sport & Exercise Science	3		
APK6116c	Physiological Bases of Exercise and Sport Sciences	3		
APK6167	Nutrition Aspects of Human Performance	3		
APK6226c	Biomechanics of Human Motion	3		
APK6611	Tactical Strength & Conditioning	3		
Practical Courses (6 credit hours)				
Course Code	Course Title	Credit	Grade	Semester
PET6947	Graduate Internship in Exercise and Sport Sciences	6		

SEMESTER BY SEMESTER WORKSHEET

Semester	Year	Course Code	Course Title	Credits	Requirement

Concentration|New for request 20137

Info
Request: New online graduate concentration in Model-Informed Drug Development concentration **Description of request:** The College of Pharmacy seeks to create a new online graduate concentration in Model-Informed Drug Development for the Master of Science in Pharmacy (M.S.P) with a major in Pharmaceutical Sciences
Submitter: Emely McKitrick emely.mckitrick@ufl.edu
Created: 8/7/2024 12:22:21 PM
Form version: 5

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".

Model-Informed Drug Development

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).

19

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.

35

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.

Model-Informed Drug Development: Master of Science in Pharmacy (M.S.P) | Major in 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.

Expanding the Model-Informed Drug Development (MIDD) Certificate program into a Master of Science in Pharmacy with a major in Pharmaceutical Sciences and a concentration in Model- Informed Drug Development will result in the inclusion of a larger number of graduate courses focused on pharmacokinetics, pharmacodynamics, pharmacometrics and quantitative pharmacology. The addition of these educational courses, in this rapidly evolving field of study, will increase the students' knowledge and skills needed to plan, perform and interpret pharmacometric analyses which are aimed at influencing key drug development, regulatory, and therapeutic decisions.

It will serve the educational needs of professionals in various areas, such as pre-clinical and clinical drug development; biomedical sciences, pharmacology, chemistry, translational science, and statistics. The goal is for the student to master basic pharmacometrics with assignments and case studies that reinforce the concepts and quantitative aspects of pharmacometrics.

As one of the first fully online graduate-level, online educational programs in the world in this subject area, UF has the opportunity to contribute to the success of the entire discipline. The program will be taught by world-renowned leaders, researchers, and educators in the field who have pioneered the study and practice of MIDD. The GRE is not required for students seeking admission to this concentration program.

There is no overlap between this new proposed MS concentration with any other concentration offered at the University of Florida.

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.

Due to the niche subject matter of MIDD we do not anticipate this newly added concentration to impact any other programs or departments within the University of Florida. Additionally, currently enrolled students within other online graduate level programs will be able to enroll into any of these courses as electives.

Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences
Concentration in Model-Informed Drug Development

Degree Plan

The Master of Science in Pharmacy (M.S.P.) with a major in Pharmaceutical Sciences Program, specializing in Model-Informed Drug Development, prepares professionals across diverse fields, including pre-clinical and clinical drug development, biomedical sciences, pharmacology, chemistry, translational science, and statistics. The program aims to equip students with a thorough understanding of basic pharmacometrics through assignments and case studies that strengthen their grasp of the concepts and quantitative aspects involved.

This 32-credit program can be completed in 2 years (24 months) or six semesters. Typically, most students opt for the two-year plan, while some working professionals may take more than two years to complete. Students have up to seven years to complete the program from the date of admission.

Required Foundational Courses

These ***four required foundational courses (12 credits)*** must be completed prior to enrolling in elective coursework.

Course #	Course Title	Credits
PHA 6418	Introduction to Model-Informed Drug Development	3
PHA 6125	Introduction to Quantitative Pharmacology	3
PHA 6131	Introduction to Physiologically-Based Modelling	3
PHA 6122	Population Pharmacokinetics and Pharmacodynamics	3

Elective Course Options

A minimum of ***19 credit hours of elective coursework*** must be completed in addition to the 12 credit hours of required foundational courses.

Course #	Course Title	Credits
PHA 6XXX*	QSP Modeling	3
PHC7738C	PBPK Modeling in Toxicology & Risk Assessment	3
PHA 6935**	Applied Statistics for Data Analysis	3
PHA 6935**	Literature Survey in Pharmacy	1-3
PHA 6910	Independent Research Study (S/U grade)	1-3
PHA 6935**	Drug Development Strategies	3
PHA 6283	Introduction to Pharmacoeconomics	3
PHA 6241	Introduction to Artificial Intelligence in Pharmacy	3
PHA 6120	Foundations of Precision Medicine: Pharmacogenomics	3
VME 6650	Principles of Mammalian Pharmacology	4
GMS 6440	Fundamentals of Medical Physiology	1

*Indicates a new course currently under development for the program.

**Indicates a course currently under review in the UF Academic Approval System for a permanent course number.

Required CAPSTONE Course

This ***1-credit comprehensive exam*** must be completed during your final semester.

Course #	Course Title	Credits
PHA 6936	Capstone Course	1

All courses are letter-graded unless noted (S/U).

Degree|Change_Credits for request 19926

Info
Request: Change of total credit hours for Anatomical Science Education M.S. program
Description of request: The College of Medicine seeks to modify the number of credit hours required for the Master of Science (M.S.) with a major in Anatomical Sciences Education
Submitter: Yehia Daaka ydaaka@ufl.edu
Created: 7/1/2024 6:58:10 AM
Form version: 2

Responses
Degree Name
Enter the name of the degree program.

Master of Science (M.S.) with a major in Anatomical Sciences Education

CIP Code
Enter the six digit Classification of Instructional Programs (CIP) code for the degree program. 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.

26.0403

Current Total Credits
Enter the current number of credits needed to complete the majors in the degree program.

32

Proposed Total Credits
Enter the proposed number of credits needed to complete the majors in the degree program.

31

Do the total credit hours increase or decrease by 25% or more AND students' expected time to completion increases or decreases by more than one term

No

Effective Term
Enter the term (semester and year) that the requested change in total credits would be effective.

Earliest Available

Effective Year

Earliest Available

Pedagogical Rationale/Justification

Describe the rationale for the proposed change to the total credits. In accordance with the requirements of Section 1007.25, F.S., the Board of Governors may approve a request by a university board of trustees for a bachelor's degree program to exceed 120 credit hours to degree for the following reasons:

• Additional courses are required to meet specialized accreditation standards for program content and such accreditation is expected or required for program graduates to become employed in the profession for which they are being prepared (e.g. Engineering, Architecture).
• Additional courses are required to meet state or federal mandated criteria for professional licensing (e.g., Teacher Education).
• The degree program offers a unique and innovative learning experience, such as honors programs, individualized study, and other non-traditional approaches to education.

We ask to change the number of credit hours from 32 to 31. The requested change is based on modifying the total credit hours for one of the required courses GMS 5630 Medical Histology from 4 to 3 credit hours, for which we have already received approval from the Graduate Curriculum Committee.

Impact on Initial Enrollment/Retention/Graduation

Describe the projected impact of the change in total credits on enrollment and on retention and graduation of students in the majors.

No change in enrollment is anticipated.

Assessment Data Review

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

We changed the previously required review sessions to optional. As a result, no change in student learning is anticipated.

Academic Learning Compact and Academic Assessment Plan

Describe the modifications to the Academic Learning Compact and Academic Assessment Plan that result from the proposed change.

There is no change in the academic compact. The previous mandatory review sessions are now optional.

Major|Modify_Curriculum for request 20153

Info
Request: Curriculum change for M.S. in Genetics & Genomics
Description of request: The College of Medicine seeks to modify the curriculum for the Master of Science (M.S.) with a major in Genetics and Genomics
Submitter: Connie Mulligan cmulligan@ufl.edu
Created: 8/7/2024 8:38:26 AM
Form version: 3

Responses
Major Name
Enter the name of the major. Example: "Mathematical Modeling"

Genetics and Genomics

Major Code
Enter the two-letter or three-letter major code.

MED

Degree Program Name
Enter the name of the degree program in which the major is offered.

M.S. degree

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

The curriculum is composed of 30 credits
- 6 core courses (17 credits)
- Mentored research experience (8 credits)
- 1-2 elective courses (5 credits)

Required core courses (17 credits)
- PCB 5065 – Advanced Genetics (4 credits)
- GMS 6221 – Ethics in Genetics (1 credit)
- PHC 6052 – Introduction to Biostatistical Methods (3 credits)
- GMS 6231 – Genomics and Bioinformatics (3 credits)
- PHC 6088 - Statistical Analysis of Genetic Data (3 credits)
- GMS 6290 – G&G seminar (1 credit x 3 semesters)

Mentored research experience (8 credits)
- GMS 5905 Special topics in Biomedical Sciences/Foundations for a Career in Genetics & Genomics

Possible elective courses, or similar courses (5 credits)
- GMS 6224 – Foundations in Precision Medicine: Medical Molecular Genetics (1 credit)
- PHA 6134 – Foundations in Precision Medicine: Genomic Technologies (1 credit)
- PHC 6598 – Foundations in Precision Medicine: Genetic Epidemiology (1 credit)
- ANG 6532 – Molecular Genetics of Disease (3 credits)
- BSC 6451 – Computational Tools for Research in Biology (3 credits)
- STA 6703 – Statistical Machine Learning (3 credits)

Final term enrollment of GMS 6290 will serve as the capstone course and culminating experience for the M.S. degree and will include a final oral comprehensive examination.

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.

A summary of requested changes is:
- GMS 6090 will be used for the mentored research experience (instead of GMS 5905 Special topics in Biomedical Sciences/Foundations for a Career in Genetics & Genomics)
- For two of the required courses, an additional option is offered for each
- More courses are listed as electives.
- The culminating experience for the M.S. degree now includes the option of a written comprehensive exam.

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.

The proposed changes will 1) align the MS in Genetics and Genomics more exactly with the first year curriculum of the PhD in Genetics and Genomics in order to facilitate PhD

students also earning a MS degree in their major and 2) include more elective courses so terminal M.S. students can customize their training to their career goals.

Impact on Enrollment, Retention, Graduation

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

There will be no impact on students who are currently in the major.

Assessment Data Review

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

The following SLOs were reviewed and are supported by the requested changes:

SLO1 Competency: Knowledge of Genetics & Genomics
Students will identify and explain fundamental principles in genetics and genomics by applying this knowledge to solve problems, to explain the background to a research project, and to answer novel questions in a research setting.

SLO2 Competency: Research Methods
Students will perform independent research that requires students to: develop technical expertise required to independently perform experimental work, independently analyze data, report key results from experiments in both written and oral formats, critically evaluate primary literature, and reproduce experimental methods from the literature.

SLO3 Professionalism
Students will be professional in their conduct of research. They will adhere to and practice ethical conduct of research and implement established safety, regulatory, and administrative rules.

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 necessary.

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 Science in Genetics and Genomics

The curriculum is composed of 30 credits

- 6 core courses (17 credits)
- Mentored research experience (7-10 credits)
- 1-2 elective courses (3-6 credits)

Required core courses (17 credits)

- PCB 5065 – Advanced Genetics (4 credits)
- GMS 6221 – Ethics in Genetics (1 credit)
- PHC 6052 – Introduction to Biostatistical Methods OR other graduate-level, science-based statistics course (3 credits)
- GMS 6231 – Genomics and Bioinformatics (3 credits)
- BCH 6415 Advanced Molecular and Cellular Biology OR PHC 6088 - Statistical Analysis of Genetic Data (3 credits)
- GMS 6290 – G&G seminar (1 credit x 3 semesters)

Mentored research experience (7-10 credits)

- GMS 6090 Research in Medical Sciences (repeatable up to 10 credits)

Possible elective courses, or similar courses (3-6 credits)

- GMS 6014 – Applications of Bioinformatics to Genetics (1 credit)
- GMS 7877 – Responsible Conduct of Biomedical Research, or similar course (1 credit)
- GMS 6224 – Foundations in Precision Medicine: Medical Molecular Genetics (1 credit)
- PHA 6134 – Foundations in Precision Medicine: Genomic Technologies (1 credit)
- PHC 6598 – Foundations in Precision Medicine: Genetic Epidemiology (1 credit)
- ANG 6532 – Molecular Genetics of Disease (3 credits)
- ANG 6930 – Academic Publishing (3 credits)
- BCH 6206 – Advanced Metabolism (3 credits)
- BSC 6451 – Computational Tools for Research in Biology (3 credits)
- CHM 6302 – Chemical Biology of Nucleic Acids (3 credits)
- STA 6703 – Statistical Machine Learning (3 credits)

The final culminating experience for the M.S. degree will be administered via a capstone course (GMS 6290 until other final capstone Genetics Research for Masters course is created) with a final comprehensive examination (oral or written). M.S. students who are continuing on for the Ph.D. degree may elect to complete a written comprehensive examination with oral presentation in place of the capstone course. In all cases, students will complete a minimum of 30 credit hours overall and 17 required courses.

Student Learning Outcomes

SLO1 Competency: Knowledge of Genetics & Genomics
Students will identify and explain fundamental principles in genetics and genomics by applying this knowledge to solve problems, to explain the background to a research project, and to answer novel questions in a research setting.

SLO2 Competency: Research Methods
Students will perform independent research that requires students to: develop technical expertise required to independently perform experimental work, independently analyze data, report key results from experiments in both written and oral formats, critically evaluate primary literature, and reproduce experimental methods from the literature.

SLO3 Professionalism
Students will be professional in their conduct of research. They will adhere to and practice ethical conduct of research and implement established safety, regulatory, and administrative rules.

Degree|New|CombinationDegree-GradPro for request 20043

Info
Request: PharmD/MS combination degree
Description of request: The College of Pharmacy seeks to create a combination degree program between the Master of Science in Pharmacy (M.S.P.) and the Doctor of Pharmacy (Pharm.D.) **Submitter:** Oliver Grundmann grundman@ufl.edu
Created: 8/7/2024 12:17:56 PM
Form version: 2

Responses
Department Name (Graduate Degree Program)
Enter the name of the department offering the undergraduate degree program.

Departments of Medicinal Chemistry, Pharmaceutical Outcomes & Policy, Pharmacotherapy and Translational Research

College Name (Graduate Degree Program)
Enter the complete name for the college/school for the department listed above.

College of Pharmacy

Major Name (Graduate Degree Program)
Enter the name of the graduate degree program (e.g., Bachelor of Arts in History).

Master of Science in Pharmacy (M.S.P.)

Major Code (Graduate Degree Program)
Enter the major code of the undergraduate degree program (e.g., HY).

PHA

Department Name (Professional Degree Program)
Enter the name of the department offering the graduate degree program.

College of Pharmacy

College Name (Professional Degree Program)
Enter the complete name for the college/school for the department listed above.

College of Pharmacy

Major Name (Professional Degree Program)
Enter the name of the professional degree program (e.g., Master of Arts in History).

Doctor of Pharmacy (Pharm.D.)

Major Code (Professional Degree Program)

Enter the major code of the professional degree program (e.g., HY).

PHA

Effective Term

Enter the term (semester and year) that students would first be admitted to the program.

Earliest Available

Effective Year

Earliest Available

What is the rationale for proposing this Combination Degree?

The goal of the combination Pharm.D./M.S. program is to educate students to assume responsibilities as practitioners, clinicians, or researchers at the interface of pharmacy and adjacent health professions. The Pharm.D. program is directed toward providing didactic and experiential education to students that will allow them to: (1) dispense medications, manage disease states, and provide pharmacotherapy-related education within a population-based public health framework; (2) contribute to the development and implementation of policy to ensure safe and effective medication use by patients and within populations; and, (3) conduct research to improve preventive and treatment strategies for acute and chronic diseases.

The principal objective of the MS program is to provide students with additional and specialized knowledge in one of the following concentrations:

- Clinical Toxicology: the treatment of the poisoned or overdosed patient in a clinical and interdisciplinary setting together with other healthcare professionals.
- Pharmaceutical Chemistry: the design and development of drug products to benefit patients with a health condition.
- Clinical Pharmacogenomics: the implementation of medication management services focused on patient-centered care utilizing the genetic make-up of a patient.
- Pharmacoeconomics: application of economic methods to compare the relative value of pharmaceutical or medical interventions
- Managed Care Pharmacy: application of clinical and economic evidence to deliver pharmaceutical interventions within managed care delivery models.
- Forensic Science: the application of health sciences to provide objective, scientific analysis in legal proceedings, including but not limited to drug chemistry, forensic serology, and DNA analysis, as well as many other subspecialties in forensic sciences, as well as assist in working medicolegal cases.

What are the benefits of establishing this program?

The concepts presented via the respective MS coursework provide students with the opportunity to specialize in a given area that will allow them to branch into a specialty of pharmacy. The current Bureau of Labor Statistics projects a decrease of 10% in available retail pharmacy positions within the next decade which will limit such positions. Meanwhile, pharmacists are highly trained and sought-after healthcare professionals with a skill set that transcends the retail setting. The MS programs are intended to position UF PharmD graduates with a competitive skill set for successful transition into the labor market.

Double-counted credits and Degree Requirements

How will double-counted credits meet the requirements of both degrees? Please note both graduate and professional degree requirements.

Any credit hours applying from a MS program to the PharmD program have been utilized in the PharmD program as elective credits and are limited to 10 credit hours total. All PharmD credit hours applying to a MS program cover content that is directly related and substantially covers the content that would be covered by the respective MS program. All courses that double-count are therefore either PharmD elective courses or meet the requirements of the MS degree as evaluated by the program director. The selection of double-counted credits has been made by the respective program director in consultation with the PharmD course coordinator to compare syllabi. All MS programs still include the core-required courses that are needed for successful completion of the MS program. No PharmD courses are removed from the double-counted credits, only PharmD courses are double-counted towards a MS degree.

The PharmD degree requirements include 146 credit hours including 6 credit hours of electives shared with the MS concentration. The MS degree consists of at least 30 credit hours of course work including up to 4 credit hours shared with the PharmD program. Each degree requirement remains the same in regard to content and credit hours.

Coherent Course of Study

How does the Combination degree program present a coherent course of study? Please explain how the combination program maintains a logical, sequential course of study that maintains both the integrity of the graduate 8-semester plan and the professional course of study.

The combination degree curriculum provides for a total of 30-33 credits required for the MS degree depending on the concentration; 23-26 credits taken within the respective MS concentration, and 7-10 credits taken within the PharmD program. The part-time MS curriculum is designed for individuals with diverse academic and professional backgrounds, many of whom may be working professionals. No previous course work other than the equivalent of a 4-year bachelor's degree is required of the candidates. Students without a bachelor's degree but with a 4-year equivalent education may petition the Graduate School to waive this requirement, but such waiver is not guaranteed.

Students must choose from one of the seven MS concentrations:

- Clinical Toxicology
- Pharmacoeconomics
- Managed Care Pharmacy
- Clinical Pharmacogenomics
- Pharmaceutical Chemistry
- Forensic Science
- Forensic Drug Chemistry

The MS program concentrations provide the flexibility to study online and complete all the program requirements while remaining fully engaged in the PharmD curriculum. Depending on the availability and sequencing of courses in the other concentrations, it may or may not be possible to complete all MS coursework in 6 semesters or approximately 2 years. Additional details for each concentration can be found at: https://pharmacy.ufl.edu/education/degrees-and- programs/online-ms-programs/.

To facilitate student progress in the combination degree program, each student is required to have a MS advisor to assist the student through the MS requirements. The COP assistant dean of lifelong learning also serves as coordinator for assigning advisors in the respective MS curriculum.

Given that all of the MS program concentration courses are offered online, students may select to take up to 3 credit hours in the spring and fall semesters in conjunction with their regular PharmD course work while taking up to 9 credit hours in summer semesters and during their APPEs. In consultation with their faculty advisor, students have to complete a course schedule prior to enrolling in the combination degree program with the goal to complete all required courses by the time they complete their PharmD program (i.e., end of year 4 of the PharmD curriculum).

In order to accomplish mastery in any of the MS concentrations, students have to complete a final comprehensive exam or capstone course in the last semester of the MS program. The exam or capstone course are administered entirely online and can be taken if students are on APPEs.

Meeting Degree Requirements

Please describe the process used to determine the meeting of requirements for both degrees as a coherent course of study for students.

The combination degree programs share class credits, with credits for certain courses counting towards both degree programs, with the goal to graduate with both the PharmD and MS within the four-year allocated to the PharmD program. A student must satisfy the curriculum requirements for each degree before either degree will be awarded. All courses that are part of the respective MS program will be offered online, thus allowing students to continue their regular PharmD courses as well as IPPEs and APPEs as required during the summer semesters.

The MS program concentrations provide the flexibility to study online and complete all the program requirements while remaining fully engaged in the PharmD curriculum. Depending on the availability and sequencing of courses in the other concentrations, it may or may not be possible to complete all MS coursework in 6 semesters or approximately 2 years. Additional details for each concentration can be found at: https://pharmacy.ufl.edu/education/degrees-and- programs/online-ms-programs/.

To facilitate student progress in the combination degree program, each student is required to have a MS advisor to assist the student through the MS requirements. The COP assistant dean of lifelong learning also serves as coordinator for assigning advisors in the respective MS curriculum.

Student Qualifications

*How are students determined to be academically qualified for this Combination program? *
Please describe the additional criteria used to select students for this combination program beyond the GPA. These include but are not limited to:
(a) faculty recommendations
(b) student performance on external examinations
(c) evidence such as portfolios, recordings, software programs, created or creative works
(d) any other indicators of the students' potential for success

PharmD students may apply to one of the concentrations of the MS program in the College of Pharmacy after successful completion of their first or second professional year. The Admissions Committee for the respective MS program reviews, and selects, students for admission to the combination degree program.

Applicants may also submit, but are not required to, up to 3 letters of recommendation to be considered and a resume stating their prior work experience. In reviewing applications, the Admissions Committee looks at desired qualities including intellectual ability, commitment to the philosophy and focus of the program, and community involvement. Strong interpersonal skills, communication ability, motivation, maturity, career focus, and leadership potential are also important qualities in prospective students. Pharmacy students should express their interest in this program during the first professional year and seek the advice and direction of the COP assistant dean of lifelong learning who will connect interested students to the respective program director.

Applicants also are required to submit a letter of intent outlining career goals and program interest, copy of residency form, and relevant immunization forms. There are no specific prerequisite course requirements, other than successful completion of the first year of the professional PharmD program.

Eligibility Requirements

Please provide the specific admissions requirements for this program, including but not limited to the minimum GPA, GRE score (when appropriate), the application procedures, and the eligibility period when a student may apply for this program.

Candidates for this program must first meet the entrance requirements and be accepted into the Doctor of Pharmacy (PharmD) degree program in the College of Pharmacy. Admission to the UF MS program is selective. The minimum requirements for admission into the MS program are an upper-division undergraduate 3.0 GPA, TOEFL scores (if applicable, i.e. if English is not the primary language), and completion of the first year of professional (PharmD program) coursework.

Is this combination degree double-counting 12 or fewer credits?

Yes

Double-counted Credit Justification

Provide a justification of the number of double-counted credits.
Please explain how the double-counted credits do not compromise the integrity and quality of the combined programs and enable students to meet each program's learning outcomes at no loss of fidelity.

Any credit hours applying from a MS program to the PharmD program have been utilized in the PharmD program as elective credits and are limited to 10 credit hours total. All PharmD credit hours applying to a MS program cover content that is directly related and substantially covers the content that would be covered by the respective MS program. All courses that double-count are therefore either PharmD elective courses or meet the requirements of the MS degree as evaluated by the program director. The selection of double-counted credits has been made by the respective program director in consultation with the PharmD course coordinator to compare syllabi. All MS programs still include the core-required courses that are needed for successful completion of the MS program. No PharmD courses are removed from the double-counted credits, only PharmD courses are double-counted towards a MS degree.

The PharmD degree requirements include 146 credit hours including 6 credit hours of electives shared with the MS concentration. The MS degree consists of at least 30 credit hours of course work including up to 4 credit hours shared with the PharmD program. Each degree requirement remains the same in regard to content and credit hours.

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.

There is no impact on other programs we are aware of. The combined degree is confined to the College of Pharmacy and all applicants for the MS program first have to be admitted into the PharmD program which has the more stringent admissions requirements.

DOCTOR OF PHARMACY

and

MASTER OF SCIENCE

COMBINATION DEGREE PROGRAM

University of Florida
College of Pharmacy

Oliver Grundmann, MS, PhD, FCP
Faculty Advisor, PharmD/MS in Clinical Toxicology & Pharmaceutical Chemistry Combination Degree Program
Clinical Professor, UF College of Pharmacy
Assistant Dean of Lifelong Learning, Director, Online Programs in Clinical Toxicology & Pharmaceutical Chemistry

Laura Happe, MPH, PharmD
Faculty Advisor, PharmD/MS in Pharmaceutical Outcomes & Policy Combination Degree Program
Clinical Professor, UF College of Pharmacy
Director, Online Program in Pharmaceutical Outcomes & Policy

Teresa Roane, MBA, PharmD, BCACP
Faculty Advisor, PharmD/MS in Clinical Pharmacogenomics Combination Degree Program
Clinical Associate Professor, UF College of Pharmacy
Assistant Director, Online Program in Clinical Pharmacogenomics

Nancy Toffolo, MS
Faculty Advisor, PharmD/MS in Forensic Science Combination Degree Program
Instructional Associate Professor, UF College of Pharmacy
Director, Online Program in Forensic Science

Combination PharmD/MS Degree Program

Objectives

The goal of the combination Pharm.D./M.S. program is to educate students to assume responsibilities as practitioners, clinicians, or researchers at the interface of pharmacy and adjacent health professions. The Pharm.D. program is directed toward providing didactic and experiential education to students that will allow them to: (1) dispense medications, manage disease states, and provide pharmacotherapy-related education within a population-based public health framework; (2) contribute to the development and implementation of policy to ensure safe and effective medication use by patients and within populations; and, (3) conduct research to improve preventive and treatment strategies for acute and chronic diseases.

The principal objective of the MS program is to provide students with additional and specialized knowledge in one of the following concentrations:

- **Clinical Toxicology:** the treatment of the poisoned or overdosed patient in a clinical and interdisciplinary setting together with other healthcare professionals.
- **Pharmaceutical Chemistry:** the design and development of drug products to benefit patients with a health condition.
- **Clinical Pharmacogenomics:** the implementation of medication management services focused on patient-centered care utilizing the genetic make-up of a patient.
- **Pharmacoeconomics:** application of economic methods to compare the relative value of pharmaceutical or medical interventions
- **Managed Care Pharmacy:** application of clinical and economic evidence to deliver pharmaceutical interventions within managed care delivery models.
- **Forensic Science:** the application of health sciences to provide objective, scientific analysis in legal proceedings, including but not limited to drug chemistry, forensic serology, and DNA analysis, as well as many other subspecialties in forensic sciences, as well as assist in working medicolegal cases.

Program Description

Candidates for this program must first meet the entrance requirements and be accepted into the Doctor of Pharmacy (PharmD) degree program in the College of Pharmacy. PharmD students may apply to one of the concentrations of the MS program in the College of Pharmacy after successful completion of their first or second professional year. The Admissions Committee for the respective MS program reviews, and selects, students for admission to the combination degree program. The MS courses can be taken in conjunction with PharmD courses during the spring and fall semesters as well as during the summer semesters. The combination degree programs share class credits, with credits for certain courses counting towards both degree programs, with the goal to graduate with both the PharmD and MS within the four-year allocated to the PharmD program. **A student must satisfy the curriculum requirements for each degree before either degree will be awarded**. All courses that are part of the respective MS program will be offered online, thus allowing students to continue their regular PharmD courses as well as IPPEs and APPEs as required during the summer semesters.

The combination degree curriculum provides for a total of 30-33 credits required for the MS degree depending on the concentration; 23-26 credits taken within the respective MS concentration, and 7-10 credits taken within the PharmD program. The part-time MS curriculum is designed for individuals with diverse academic and professional backgrounds, many of whom may be working professionals. No previous course work other than the equivalent of a 4-year bachelor's degree is required of the candidates. Students without a bachelor's degree but with a 4-year equivalent education may petition the Graduate School to waive this requirement, but such waiver is not guaranteed.

Students must choose from one of the seven MS concentrations:

- Clinical Toxicology
- Pharmacoeconomics
- Managed Care Pharmacy
- Clinical Pharmacogenomics
- Pharmaceutical Chemistry
- Forensic Science
- Forensic Drug Chemistry

The MS program concentrations provide the flexibility to study online and complete all the program requirements while remaining fully engaged in the PharmD curriculum. Depending on the availability and sequencing of courses in the other concentrations, it may or may not be possible to complete all MS coursework in 6 semesters or approximately 2 years. Additional details for each concentration can be found at: https://pharmacy.ufl.edu/education/degrees-and-programs/online-ms-programs/.

To facilitate student progress in the combination degree program, each student is required to have a MS advisor to assist the student through the MS requirements. The COP assistant dean of lifelong learning also serves as coordinator for assigning advisors in the respective MS curriculum.

The concepts presented via the respective MS coursework provide students with the opportunity to specialize in a given area that will allow them to branch into a specialty of pharmacy. The current Bureau of Labor Statistics projects a decrease of 10% in available retail pharmacy positions within the next decade which will limit such positions. Meanwhile, pharmacists are highly trained and sought-after healthcare professionals with a skill set that transcends the retail setting. The MS programs are intended to position UF PharmD graduates with a competitive skill set for successful transition into the labor market.

Given that all of the MS program concentration courses are offered online, students may select to take up to 3 credit hours in the spring and fall semesters in conjunction with their regular PharmD course work while taking up to 9 credit hours in summer semesters and during their APPEs. In consultation with their faculty advisor, students have to complete a course schedule prior to enrolling in the combination degree program with the goal to complete all required courses by the time they complete their PharmD program (i.e., end of year 4 of the PharmD curriculum).

In order to accomplish mastery in any of the MS concentrations, students have to complete a final comprehensive exam or capstone course in the last semester of the MS program. The exam or capstone course are administered entirely online and can be taken if students are on APPEs.

Admission Requirements

Admission to the UF MS program is selective. The minimum requirements for admission into the MS program are completion of a Baccalaureate, graduate or professional degree from an accredited college, university, or higher education institution, an upper-division undergraduate 3.0 GPA, a satisfactory score on an English Language Skills test (TOEFL, IELTS, or successful completion of University of Florida English Language Institute program) for international students (i.e. if English is not the primary language), and completion of the first year of professional (PharmD program) coursework. Applicants may also submit, but are not required to, up to 3 letters of recommendation to be considered and a resume stating their prior work experience. In reviewing applications, the Admissions Committee looks at desired qualities including intellectual ability, commitment to the philosophy and focus of the program, and community involvement. Strong interpersonal skills, communication ability, motivation, maturity, career focus, and leadership potential are also important qualities in prospective students. Pharmacy students should express their interest in this program during the first professional year and seek the advice and direction of the COP assistant dean of lifelong learning who will connect interested students to the respective program director.

Applicants also are required to submit a letter of intent outlining career goals and program interest, copy of residency form, and relevant immunization forms. There are no specific prerequisite course requirements, other than successful completion of the first year of the professional PharmD program.

The University of Florida College of Pharmacy MS Program uses a rolling admissions process by which applications are considered as they are received. Applicants are highly encouraged to apply as early as possible. Specific procedures and deadlines are outlined on the UF College of Pharmacy MS Program web site for the respective concentration (https://pharmacy.ufl.edu/education/degrees-and-programs/online-ms-programs/). New students are accepted to the combination PharmD/MS program for the spring, summer, or fall semester. All application materials must be received by the deadline indicated on the concentration's website (see Critical Dates under Resources or Academic Calendar under Current Students) to be admitted for the spring, summer, or fall semester.

Students must petition the College of Pharmacy's Academic and Professional Standards Committee for the opportunity to begin the MS program once accepted to the program.

Students should maintain regular contact with the COP faculty advisor of their chosen MS program concentration. The support and endorsement of the student's application by the College of Pharmacy is required.

Visits and Interviews

A campus visit is not a necessary part of the admission process. Interested students may reach out to the COP assistant dean of lifelong learning prior to starting the application process. An appointment can be made through the MS admissions office to discuss any aspect of the program or the admission process by contacting:

Distance Education Support Services
Phone: 352-273-8691
Email: ahc-dess@ufl.edu

Summary: Shared Curriculum Coursework

PharmD Required Coursework

First Year (1PD): 37 credit hours

PHA5103	Principles of Patient Centered Care	2 cr.
PHA5727	Principles of Systems-Based Practice	1 cr.
PHA5007	Pharmacy & Population Health	2 cr.
PHA5021C/PHA5022C	Personal and Professional Development I & II	1 cr.
PHA5161L/PHA5162L	Professional Practice Skills I & II	2 cr.
PHA5560/PHA5561	Pathophysiology and Patient Assessment I & II	6 cr.
PHA5439/PHA5515	Principles of Medicinal Chemistry and Pharmacology I & II	4 cr.
PHA5176	Drug Delivery Systems	4 cr.
PHA5132	Principles of Drug Therapy Individualization	4 cr.
PHA5781	Patient Care 1	3 cr.
PHA5703	Principles of Pharmacy Law & Ethics	1 cr.
PHA5244	Principles of Evidence-Based Practice	3 cr.
PHA5941	Community Introductory Pharmacy Practice Experience	4 cr.

Second Year (2PD): 37 credit hours

PHA5782C/PHA5878C/ PHA5784C/PHA5787C	Patient Care 2, 3, 4, & 5	24 cr.
PHA5267	Principles of Pharmacoeconomics	1 cr.
PHA5163L/PHA5164L	Professional Practice Skills III & IV	2 cr.
PHA5023C/PHA5024C	Personal and Professional Development III & IV	1 cr.
PHA5104	Sterile Compounding	1 cr.
PHA5942	Hospital Introductory Pharmacy Practice Experience	4 cr.
	Electives 1 and 2 OR MS CONCENTRATION ELECTIVE	3-4 cr.

Third Year (3PD): 41 credit hours

PHA5222	Pharmacy Management	2 cr.
PHA5226C	Patient Safety & Quality	2 cr.
PHA5223	Pharmacoepidemiology and Drug Safety	2 cr.
PHA5239	Pharmaceutical Law & Ethics	2 cr.
PHA5788C/PHA5789C/ PHA5876C	Patient Care 6, 7 & 8	13 cr.
PHA5165L/PHA5166L	Professional Practice Skills V & VI	2 cr.
PHA5025C/PHA5026C	Personal and Professional Development V & VI	1 cr.
	Electives 3 and 4 OR MS CONCENTRATION ELECTIVE	3-4 cr.
PHA5759	Advanced Pharmacy Practice Experience Readiness	1 cr.
PHA5761/PHA5762	Advanced Pharmacy Practice Experiences	12 cr.

Fourth Year (4PD): 31 credit hours

	Personal and Professional Development VII, VIII, IX	1 cr.
PHA5763/PHA5764/	Advanced Pharmacy Practice Experiences	30 cr.

PHA5765/PHA5766/ PHA5767	
Total required/elective PharmD credits	**146**

MS Coursework counting for PharmD Credit

MS Elective or Core courses (*in lieu of PharmD electives*)	6 cr.
Combination counted credits	**6 cr.**

TOTAL CREDITS FOR PHARMACY DEGREE	***146***

MS Required Coursework

1. Clinical Toxicology Concentration

1.1 Core MS Clinical Toxicology Coursework

PHA 6556 Introduction to Clinical Toxicology	3 cr.
PHA5244 Principles of Evidence-Based Practice (from PharmD curriculum)	3 cr.
VME 6602 General Toxicology	3 cr.
PHA 6557 Clinical Toxicology 1	3 cr.
VME 6605 Toxic Substances	3 cr.
VME 6766 Laboratory QA/QC	3 cr.
Total required credits for core coursework	**18 cr.**

All courses are letter-graded.

1.2 Core MS Clinical Toxicology Concentration Coursework

Students are required to select a total of 13 credit hours, including up to 4 credit hours that are shared with the PharmD program upon approval by the program director, among the required and/or elective courses in the Clinical Toxicology program from the following website: https://clintox.cop.ufl.edu/programs/masters-degree/masters-degree-required-courses/

Total required credits for concentration coursework	**13 cr.**

1.3 Final Comprehensive exam in MS Clinical Toxicology concentration

Special Topics in Clinical Toxicology (last semester of the MS program)	1
Total	**1**

TOTAL CREDITS FOR MS with concentration in Clinical Toxicology 32 cr.

2. Pharmaceutical Chemistry Concentration

2.1 Core MS Pharmaceutical Chemistry Coursework

PHA5439 & PHA5515 Principles of Medicinal Chemistry and Pharmacology I & II (from PharmD curriculum)	4 cr.
PHA 6444 Pharmaceutical Chemistry 1	3 cr.
PHA 6543 Pharmaceutical Chemistry 2	3 cr.
PHA 6417 Pharmaceutical Analysis 2	3 cr.
VME 6766 Laboratory QA/QC	3 cr.
Total required credits for core coursework	**16 cr.**

All courses are letter-graded.

2.2 Core MS Pharmaceutical Chemistry Concentration Coursework

Students are required to select a total of 15 credit hours, including up to 6 credit hours that are shared with the PharmD program upon approval by the program director, among the required and/or elective courses in the Pharmaceutical Chemistry program from the following website: https://pharmchem.cop.ufl.edu/programs/masters-degree/masters-degree-required-courses/

Total required credits for concentration coursework	**15 cr.**

2.3 Final Comprehensive exam in MS Pharmaceutical Chemistry concentration

Special Topics in Pharmaceutical Chemistry (last semester of the MS program	1 cr.
Total	**1 cr.**

TOTAL CREDITS FOR MS with concentration in Pharmaceutical Chemistry	***32 cr.***

3. Clinical Pharmacogenomics Concentration

3.1 Core MS Clinical Pharmacogenomics Coursework

PHA 6120 Foundations of Precision Medicine: Principles of Pharmacogenomics	3 cr.
PHA 6134 Foundations of Precision Medicine: Genomic Technologies	1 cr.
GMS 6224 Foundations of Precision Medicine: Medical Molecular Genetics	1 cr.
PHA 6935 Foundations of Precision Medicine: Genetic Epidemiology	1 cr.
PHA 6443 Case Studies in Clinical Pharmacogenomics	3 cr.
PHA 6935 Clinical Pharmacogenomics Implementation	3 cr.
Total required credits for core coursework	**12 cr.**

All courses are letter-graded.

3.2 Core MS Clinical Pharmacogenomics Concentration Coursework

Students are required to select a total of 18 credit hours, including up to 6 credit hours that are shared with the PharmD program upon approval by the program director, among the required and/or elective courses in the Clinical Pharmacogenomics program from the following website: https://onlinepim.pharmacy.ufl.edu/programs/courses/. **Total required credits for concentration coursework 18 cr.**

3.3 Final Comprehensive exam in MS Clinical Pharmacogenomics concentration

Special Topics in Clinical Pharmacogenomics (last semester of the MS program)	1 cr.
Total	**1 cr.**

TOTAL CREDITS FOR MS with concentration in Clinical Pharmacogenomics 31 cr.

4. Pharmacoeconomics Concentration

4.1 Core MS Pharmacoeconomics Concentration Coursework

PHA6186 Foundations of Pharmaceutical Outcomes and Policy I	3 cr.
PHA6187 Foundations of Pharmaceutical Outcomes and Policy II	3 cr.
PHA6279 Pharmaceutical Outcomes and Policy Capstone	3 cr.
PHA6741 Writing for Pharmaceutical Outcomes and Policy	3 cr.
PHA6283 Introduction to Pharmacoeconomics	3 cr.
PHA6264 Pharmaceutical Health Technology Assessment	3 cr.
PHA6795 Quantitative Methods in Evidence-based Pharmacy	3 cr.
PHA6286 Pharmaceutical Microeconomics	3 cr.
PHA6806 Pharmacoeconomic Modeling	3 cr.
Total required credits for core coursework	**27 cr.**

All courses are letter-graded.

4.2 Elective MS Pharmacoeconomics Concentration Coursework

Students are required to select a total of 6 elective credit hours. Students may either: (1) select electives from any of the courses offered by the online graduate program in the Department of Pharmaceutical Outcomes and Policy, or (2) apply coursework from the PharmD curriculum as elective credits.

Online graduate program electives: https://onlinepop.pharmacy.ufl.edu/programs/course-schedule/

Required PharmD courses that may be counted as electives:

PHA5267 Principles of Pharmacoeconomics	1 cr.
PHA5223 Pharmacoepidemiology and Drug Safety	2 cr.
PHA5244 Principles of Evidence-based Practice	3 cr.
Total elective credits for concentration coursework	**6 cr.**

All courses are letter-graded.

TOTAL CREDITS FOR MS with concentration in Pharmacoeconomics ***33 cr.***

5. Managed Care Pharmacy Concentration

5.1 Core MS Managed Care Pharmacy Concentration Coursework

PHA6186 Foundations of Pharmaceutical Outcomes and Policy I	3 cr.
PHA6187 Foundations of Pharmaceutical Outcomes and Policy II	3 cr.
PHA6279 Pharmaceutical Outcomes and Policy Capstone	3 cr.
PHA6741 Writing for Pharmaceutical Outcomes and Policy	3 cr.
PHA6276 Pharmacy Benefit Design and Management	3 cr.
PHA6211 Applied Pharmacy Benefit Design	3 cr.
PHA6213 Advanced Case Studies in Managed Care Pharmacy	3 cr.
PHA5244 Principles of Evidence-based Practice (from PharmD curriculum)	3 cr.
PHA6283 Introduction to Pharmacoeconomics	3 cr.
Total required credits for core coursework	**27 cr.**

All courses are letter-graded.

5.2 Elective MS Managed Care Pharmacy Concentration Coursework

Students are required to select a total of 6 elective credit hours. Students may either: (1) select electives from any of the courses offered by the online graduate program in the Department of Pharmaceutical Outcomes and Policy, or (2) apply coursework from the PharmD curriculum as elective credits.

Online graduate program electives: https://onlinepop.pharmacy.ufl.edu/programs/course-schedule/

Required PharmD courses that may be counted as electives:

PHA5267 Principles of Pharmacoeconomics	1 cr.
PHA5223 Pharmacoepidemiology and Drug Safety	2 cr.
PHA5007 Pharmacy and Population Health	2 cr.
Total elective credits for concentration coursework	**6 cr.**

All courses are letter-graded.

TOTAL CREDITS FOR MS with concentration in Pharmacoeconomics 33 cr.

6. Forensic Science Concentration

6.1 Core MS Forensic Science Coursework

PHA5439 & PHA5515 Principles of Medicinal Chemistry and Pharmacology I & II (from PharmD curriculum)	4 cr.
PHA 6853 Biological Evidence and Serology	3 cr.
PHA 6850 Principles of Forensic Science	3 cr.
VME 6613 Forensic Toxicology 1	3 cr.
VME 6766 Laboratory QA/QC	3 cr.
Total required credits for core coursework	**16 cr.**

All courses are letter-graded.

6.2 Core MS Forensic Science Coursework

Students are required to select a total of 15 credit hours, including up to 6 credit hours that are shared with the PharmD program upon approval by the program director, among the required and/or elective courses in the Forensic Science program from the following website: https://forensicscience.ufl.edu/programs/masters-degree/ms-forensic-science/

Total required credits for concentration coursework	**15 cr.**

6.3 Final Comprehensive exam in MS Forensic Science concentration

Special Topics in Forensic Science (last semester of the MS program)	1 cr.
Total	**1 cr.**

TOTAL CREDITS FOR MS with concentration in Forensic Science	***32 cr.***

7. Forensic Drug Chemistry Concentration

7.1 Core MS Forensic Drug Chemistry Coursework

PHA5439 & PHA5515 Principles of Medicinal Chemistry and Pharmacology I & II (from PharmD curriculum)	4 cr.
PHA 6354 Natural Medicinal Products	3 cr.
PHA 6471 Synthetic Medicinal Chemistry	3 cr.
PHA 6840 Medicinal Chemistry of Drugs of Abuse	3 cr.
PHA 6850 Principles of Forensic Science	3 cr.
VME 6613 Forensic Toxicology 1	3 cr.
VME 6766 Laboratory QA/QC	3 cr.
Total required credits for core coursework	**22 cr.**

All courses are letter-graded.

7.2 Core MS Forensic Drug Chemistry Coursework

Students are required to select a total of 9 credit hours, including up to 6 credit hours that are shared with the PharmD program upon approval by the program director, among the required courses in the Forensic Drug Chemistry program from the following website:
https://forensicscience.ufl.edu/programs/masters-degree/ms-forensic-drug-chemistry/

Total required credits for concentration coursework	**9 cr.**

7.3 Final Comprehensive exam in MS Forensic Drug Chemistry concentration

Special Topics in Forensic Drug Chemistry (last semester of the MS program)	1 cr.
Total	**1 cr.**

TOTAL CREDITS FOR MS with concentration in Forensic Drug Chemistry	***32 cr.***

For further information:
UF College of Pharmacy
Office for Student Affairs
PO Box 00495
Gainesville, FL 32610-0495
Phone: (352) 273-6217
Email: frontdesk@cop.ufl.edu
Web page: http://pharmacy.ufl.edu

Graduate Curriculum Committee

Minutes

June 13, 2024
Meeting Materials

Voting Conducted
via Mail-Vote

I. Presentation and review of the Minutes from the May 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.

CBA – Management

1. ENT 6XXX *Strategy and Disruption in Technology Industries*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19805

   The proposal has been conditionally approved. Once revised, the proposal can be administratively approved after further review by the Chair of the GCC.

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

There are no course modifications to present.

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.

DCP – Architecture

1. ARC 5XXX *Graduate Architectural History 1*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20028

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

2. ARC 5XXX *Graduate Architectural History 2*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20007

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

3. ARC 5XXX *Graduate Core Studio 1*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20005

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

4. ARC 5XXX *Graduate Core Studio 2*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20012

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

5. ARC 5XXX *IPAL Seminar 1*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20025

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

6. ARC 5XXX *IPAL Seminar 2*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20026

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

7. ARC 5XXX *IPAL Seminar 3*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20027

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

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 – General Medicine

1. CAI 5XXX *AI Design Studio I*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19998

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

2. CAI 5XXX *AI Design Studio II*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19999

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

3. CAI 5XXX *AI for Clinical Decision Support*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20020

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

4. CAI 5XXX *AI in Medical Image Analysis*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20018

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

5. CAI 5XXX *AI-Powered Drug Discovery*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20022

   The proposal has been conditionally approved. Once revised, the proposal can be administratively approved after further review by the Chair of the GCC.

6. CAI 5XXX *Biostatistics for AI*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20019

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

7. CAI 5XXX *Economic, Social, Legal, and Ethical Implications of AI in Medicine*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19995

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

8. CAI 5XXX *Fundamentals of Artificial Intelligence in Medicine I*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19996

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

9. CAI 5XXX *Fundamentals of Artificial Intelligence in Medicine II*
   Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19997

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

10. CAI 6XXX *Applied Generative AI in Medicine*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20023

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

11. CAI 6XXX *Clinical AI Design Studio I*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20000

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

12. CAI 6XXX *Clinical AI Design Studio II*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20017

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

13. CAI 6XXX *Supervised Research in AI for Health*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20021

    The proposal has been conditionally approved. Once revised, the proposal can be administratively approved after further review by the Chair of the GCC.

DCP – Design, Construction and Planning

14. DCP 6XXXC *Green Building Strategies*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/19963

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

JOU – Mass Communication

15. MMC 6XXX *Computational Methods for Media Research*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20038

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

16. MMC 6XXX *Human Machine Communication*
    Link to proposal: https://secure.aa.ufl.edu/Approval/reports/20032

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

VI. Information Items:

1. LAS 6938 – 19923 – Change maximum repeatable credit from 9 to 18
2. PHC 6937 – 20016 – Change maximum repeatable credit from 6 to 12
3. URP 6979 – 19931 – Change credits from Non-repeatable to Repeatable (max 12)

PROPOSED CHANGES for Grad Council Consideration
August 15, 2024

Updated language for admissions website
https://admissions.ufl.edu/apply/graduate/international

English Proficiency [HEADER]

All international applicants will be required to provide English Proficiency Test Scores and meet the minimum score requirements. Students from countries where English is the only official language, who have attended non-US institutions where the language of instruction is English or have earned a degree within the United States may qualify for an exemption at the discretion of the academic department. The university does not accept scores compiled from multiple tests to meet English proficiency requirements.

UF's TOEFL and GRE school code is 5812.

Minimum accepted scores [DROPDOWN MENU]

The address associated with our IELTS Results Service account is:
The University of Florida
201 Criser Hall
Gainesville, FL 32611
United States

Exemptions are granted if applicants:

- Have successfully completed one academic year in a degree-seeking program at a UF-recognized~~/regionally~~ accredited university or college in the United States.
- Have successfully completed one academic year in a degree-seeking program at a non-US institution in a country where English is the only official language or whose language of instruction is English ~~official language~~.
- Hold an earned equivalent of associate's, bachelor's, master's or PhD degree from a UF-recognized~~/regionally~~ accredited college or university in the United States.
- Hold an earned equivalent of associate's, bachelor's, master's or PhD degree from a non-US institution in a country where English is the only official language or whose language of instruction is English ~~official language~~.

Countries Exempt from English Proficiency [DROPDOWN MENU]

PROPOSED CHANGES for Grad Council Consideration
August 15, 2024

Update language for Graduate Catalog https://gradcatalog.ufl.edu/graduate/admission/

ADMISSION [HEADER]

HOW TO APPLY [HEADER]

To apply for admission, go online to the Office of Admissions Graduate Admissions website (https://admissions.ufl.edu/apply/graduate/) for basic information and contact the academic unit of interest for specific deadlines, requirements, and procedures. To find websites for academic units, go online to https://grad.ufl.edu/apply/admission/. The Office of Admissions refers applications that meet minimum standards to the graduate admission committees of the pertinent academic units for approval or disapproval. Applicants must meet the requirements of both the academic unit and the Graduate School to be admitted for graduate study. Admission to some programs is limited by what resources are available.

Requirements for Admission:

- A recognized baccalaureate, graduate or professional degree from a college, university, or higher education institution accredited by the Higher Learning Commission, the Middle States Commission on Higher Education, the New England Commission of Higher Education, the Northwest Commission on Colleges and Universities, the Southern Association of Colleges and Schools, the Western Association of Schools and Colleges, or a comparable degree from an international institution.
- For applicants with a bachelor's degree only, a minimum grade point average of B (3.0), calculated from all grades and credits after the semester where the applicant reached 60 semester hours or 90 quarter hours is required. Applicants should refer directly to their intended academic units for Graduate Record Examination (GRE) or Graduate Management Admission Test (GMAT) requirements. If required, academic test scores are used in the context of a holistic credential review process.
- For all international applicants ~~For applicants from countries where English is not the official language~~, a minimum score on one of these English Language Skills tests:
    - Test of English as a Foreign Language (TOEFL): 550 paper, or 80 Internet & Home Edition;
    - International English Language Testing System (IELTS): 6; or
    - Documented successful completion of the University of Florida English Language Institute program.
    - For graduate programs that require a GRE score, the verbal GRE must be a minimum of 140 in addition to TOEFL or IELTS.

** Students from countries where English is the only official language, who have attended non-US institutions where the language of instruction is English or have earned a degree within the United States may qualify for an exemption at the discretion of the academic department.*

- The admissions application must be submitted with a non-refundable $30.00 application fee.
- Satisfactory conduct record.
- Proof of medical immunization. Visit the following website http://shcc.ufl.edu/services/primary-care/immunizations/.
- A complete and up-to-date résumé or curriculum vitae (submitted via CollegeNET) that includes all post-high school education and employment, plus information about ongoing international affiliations and research funding.

Some academic units require a reading knowledge of at least one foreign language. Exceptions to the above requirements are made only when these and other criteria, including letters of recommendation, are reviewed by the academic unit, recommended by the college, and approved by the Dean of the Graduate School.

- Anguilla
- Antigua and Barbuda
- Australia
- Bahamas
- Barbados
- Belize
- Bermuda
- Botswana
- British Virgin Islands
- Canada
- Cayman Islands
- Dominica
- Gambia
- Ghana
- Grenada
- Guyana
- Ireland
- Jamaica
- Kenya
- Lesotho
- Liberia
- Malawi
- Malta
- Montserrat
- Namibia
- New Zealand
- Nigeria
- Philippines
- Singapore
- South Africa
- Sri Lanka
- St. Kitts and Nevis
- St. Lucia
- St. Vincent and the Grenadines
- Swaziland
- Tanzania
- Trinidad and Tobago
- Turks and Caicos Islands
- Uganda
- United Kingdom
- Virgin Islands
- Zimbabwe