I. **ACTION ITEMS:**

1. Minutes from the February 16, 2023 Graduate Council Meeting (Enclosure 1).

**CERTIFICATES:**

2. The College of Agricultural and Life Sciences seeks to modify the curriculum for the graduate certificate in Ecological Restoration (#18055). Ms. Sandie Houder will be present for discussion (Enclosure 2).

3. The College Engineering seeks to modify the curriculum for the graduate certificate in Engineering Innovation (#18110). Dr. Lawrence Tinker will be present for discussion (Enclosure 3).

4. The College of Engineering seeks to modify the curriculum for the graduate certificate in Engineering Project Management (#17948). Mr. William McElroy will be present for discussion (Enclosure 4).

5. The College of Agricultural and Life Sciences seeks to modify the curriculum for the graduate certificate in Natural Resource Policy and Administration (#18053). Ms. Sandie Houder will be present for discussion (Enclosure 5).

**CONCENTRATIONS:**

6. The College of Public Health and Health Professions seeks to create a graduate concentration in Disability, Health, and Participation for the Doctor of Philosophy (Ph.D.) with a major in Rehabilitation Science (#17830). Dr. Stephanie Hanson and Dr. Jessica Kramer will be present for discussion (Enclosure 6).

7. The College of Public Health and Health Professions seeks to modify the curriculum for the graduate concentration in Health Data Science (#17367). Dr. Steve Foti will be present for discussion (Enclosure 7).

**MAJORS:**

8. The College of Liberal Arts and Sciences seeks to modify the curriculum for the Master of Statistics, the Master of Science in Statistics, and the Doctor of Philosophy with a major in Statistics (#18129). Dr. Mike Daniels will be present for discussion (Enclosure 8).

9. The College of Health and Human Performance seeks to modify the curriculum for the Master of Science (MS) with a major in Health Education and Behavior (HEB) (#18366). Dr. Amy Mobley will be present for discussion (Enclosure 9).

**2023-2026 BALLOT:**

10. Approval of the ballot for election to Graduate Council 2023-2026.
II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:

11. Graduate Curriculum Committee – February Minutes and March Agenda. (Enclosure 10).

12. Graduate Programs – Distance or Self-Funded – No new items

13. Online Ph.D. proposals update

III. DISCUSSION ITEM:

14. Graduate Faculty Status
GRADUATE COUNCIL MINUTES
FEBRUARY 16, 2023
1:00 PM
110 GRINTER HALL
& Teleconference (Via Zoom)

MEMBERS PRESENT: Dr. Nicole Stedman (Chair), Dr. Monika Ardelt, Dr. Linda Bloom, Dr. J.C. Bunch, Dr. James Essegbeý, Dr. Hitomi Greenslet, Dr. Cynthia Griffin, Dr. Tanya Koropecjký-Cox, Dr. Corene Matyas, Dr. K. Ramesh Reddy, Dr. Timothy Murtha, Paul C. Wassel III (GSC representative), and Alexander Wong (GSC alternate)

MEMBERS ABSENT: Dr. Aner Sela and Dr. Marta Wayne

GUESTS PRESENT: Dr. Kara Casy (College of Agricultural and Life Sciences), Dr. Mike Griffis (College of Engineering), Diana Hull (Office of the Registrar), Dr. Maria Leite (Academic Affairs), Robert McGarrah (Office of Admissions), Ruth McIlhenny (Levin College of Law), Dr. Johnathan Orsini (Office of the Provost/Distance Learning), Dr. Tobin Shroye (Undergraduate Curriculum Committee), and Dr. Siva Srinivasan (College of Engineering)

STAFF PRESENT: Dr. Tom Kelleher, Gann Enholm, Frankie Tai (Recording), Patty Van Wert, and Stacy Wallace

The meeting was called to order at 1:00 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.

I. **ACTION ITEMS:**

1. Minutes from the January 19, 2023 Graduate Council Meeting (Enclosure 1). A motion to approve was made, seconded, and passed unanimously.

CERTIFICATES:

2. The College of Agricultural and Life Sciences seeks to close the graduate certificate in Global Agroecology (#18043). Dr. Kara Casy was present for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of Fall 2023.

   *The Chair sought Council approval for consideration of five (5) of the items from the College of Engineering as a package (3, 4, 5, 7, & 8). Council concurred.*

   3. The College of Engineering seeks to modify the curriculum for the graduate certificate in Advanced Manufacturing (#17941). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.
4. The College of Engineering seeks to modify the curriculum for the graduate certificate in Control Systems (#17951). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

5. The College of Engineering seeks to modify the curriculum for the graduate certificate in Energy Management (#17939). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

6. The College of Engineering seeks to suspend the graduate certificate in Gas Turbines (#17942). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of Spring 2023 to Spring 2025.

7. The College of Engineering seeks to modify the curriculum for the graduate certificate in Scientific Computing (#17946). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

8. The College of Engineering seeks to modify the curriculum for the graduate certificate in Solar Energy (#17944). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

CONCENTRATION:

9. The College of Engineering seeks to create a graduate concentration in Transportation Leadership (#17867). Dr. Siva Srinivasan was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

MAJORS:

10. The College of Engineering seeks to close the Master of Engineering with a major in Aerospace Engineering (#17737). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

11. The College of Engineering seeks to close the Master of Engineering with a major in Mechanical Engineering (#17736). Dr. Michael Griffis was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

12. The College of Engineering seeks to modify the curriculum for the Doctor of Philosophy (Ph.D.) with a major in Computer Engineering (#17586). Dr. Joseph Wilson was present for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.
COMBINATION DEGREES:

13. The Levin College of Law seeks to reaffirm the combination degree program between the Master of Arts (M.A.) with a major in Political Science – International Relations and the Juris Doctor (J.D.) with a major in Law (#17346). Ruth McIlhenny, J.D. was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

14. The Levin College of Law seeks to reaffirm the combination degree program between the Master of Arts (M.A.) with a major in Political Science and the Juris Doctor (J.D.) with a major in Law (#17345). Ruth McIlhenny, J.D. was present (via Zoom) for discussion. A motion to approve was made, seconded, and passed unanimously, with a proposed effective date of earliest available.

II. INFORMATION ITEM / ADMINISTRATIVE ACTIONS:

15. Graduate Curriculum Committee – January Minutes and February Agenda.

16. Graduate Programs – Distance or Self-Funded – No new items

III. DISCUSSION ITEM:

- Final term registration requirement
  Discussion regarding the 3-credit minimum for registration and the possibility/parameters of reducing it to 1 credit.

- Ballot for new Council members
  Council members are to create a list of 6 or more candidates. Once an initial pool is created, current Grad Council members and the provost will select faculty to join.

The meeting adjourned at 2:06 p.m.
Certificate | Close-Modify for request 18055

Info
Request: Modification to the curriculum of the graduate certificate in Ecological Restoration
Description of request: The College of Agricultural and Life Sciences seeks to modify the curriculum for the graduate certificate in Ecological Restoration.
Submitter: Sandra Houder shouder@ufl.edu
Created: 2/24/2023 10:39:39 AM
Form version: 3

Responses
Current Certificate Name

Ecological Restoration

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

Earliest Available

Effective Year

Earliest Available

Requested Action

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

Change Certificate Name?
No

Change Certificate Name on Transcript?
No

Current Transcript Name

Ecological Restoration

Change Credit Hours?
No
Change Certificate Description?

No

Change Certificate Prerequisites?

No

Change Certificate Requirements?

Yes

Current Requirements

Requirements
Ecological Restoration Graduate Certificate Program (ECR)
• All students must earn a grade of B or better in each course to use it towards the ECR certificate.
• UF graduate degree-seeking students who would like to add this certificate must apply for admission before 50% of the credits are complete.

Required Course (3 credits):
• FOR 5157 Ecosystem Restoration Principles and Practice (Fall, 3 credits, letter graded)

Choose 4 Electives (12 credits) from the following options:
• FAS 6360 Invasion Ecology of Aquatic Animals (Spring, even years only, 3 credits, letter graded)
• FOR 5159 Ecology & Restoration of Longleaf Pine Ecosystem (Spring, 3 credits, letter graded)
• FOR 6934 Ecology & Restoration of Invaded Ecosystems (Spring, 3 credits, letter graded)
• FNR 6669 Natural Resource Conservation Policy & Economics (Spring, 3 credits, letter graded)
• FOR 6934 Agroforestry of the Southeastern US (TBA, 3 credits, letter graded)
• HOS 6070 Plant Materials for Conservation & Restoration (Summer, odd years only, 3 credits, letter graded)
• FOR 6151 Forest Ecosystem Health (Fall, 3 credits, letter graded)
• FOR 6154 Analysis of Forest Ecosystems (Fall, 3 credits, letter graded)
• FNR 6628 Watershed Restoration & Management (Fall, even years only, 3 credits, letter graded)

Proposed Requirements

We seek to add one course as an elective, FOR 6340 Physiology of Forest Trees.

Requirements
Ecological Restoration Graduate Certificate Program (ECR)
• All students must earn a grade of B or better in each course to use it towards the ECR certificate.
UF graduate degree-seeking students who would like to add this certificate must apply for admission before 50% of the credits are complete.

Required Course (3 credits):
- FOR 5157 Ecosystem Restoration Principles and Practice (Fall, 3 credits, letter graded)

Choose 4 Electives (12 credits) from the following options:
- FAS 6360 Invasion Ecology of Aquatic Animals (Spring, even years only, 3 credits, letter graded)
- FOR 5159 Ecology & Restoration of Longleaf Pine Ecosystem (Spring, 3 credits, letter graded)
- FOR 6340 Physiology of Forest Trees (Spring, 3 credits, letter graded)
- FOR 6934 Ecology & Restoration of Invaded Ecosystems (Spring, 3 credits, letter graded)
- FNR 6669 Natural Resource Conservation Policy & Economics (Spring, 3 credits, letter graded)
- FOR 6934 Agroforestry of the Southeastern US (TBA, 3 credits, letter graded)
- HOS 6070 Plant Materials for Conservation & Restoration (Summer, odd years only, 3 credits, letter graded)
- FOR 6151 Forest Ecosystem Health (Fall, 3 credits, letter graded)
- FOR 6154 Analysis of Forest Ecosystems (Fall, 3 credits, letter graded)
- FNR 6628 Watershed Restoration & Management (Fall, even years only, 3 credits, letter graded)

Impact on Program

Students will have one more elective to choose from to complete their 12 needed elective credits.

Rationale for Proposed Change(s)

The course material/SLOs for FOR 6340 Physiology of Forest Trees are topically appropriate for the ECR certificate and support the ECR certificate SLOs.

Assessment Data Review

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

The course material/SLOs for FOR 6340 Physiology of Forest Trees are topically appropriate for the ECR certificate and support the ECR certificate SLOs.

FOR 6340 Learning Outcomes:
I. Apply concepts of the physiological ecology of forest trees to their work or research in forests and natural resources, with special emphasis on
   (a) the unique morphological and physiological adaptations that set trees apart from other plants;
   (b) the integration of physiological function across levels of biological organization from the cell to the landscape; and
   (c) interactions among the environment (including forest management), physiology, and tree and forest productivity.
II. Critically analyze ecophysiological research literature and integrate physiological concepts into their research.

III. Formulate research methodology implementing ecophysiological experimental and measurement approaches.

Ecological Restoration Graduate Certificate SLOs:
1) Apply theoretical and technical knowledge of ecology, soils, and related biophysical sciences in order to plan real-world restoration projects.
2) Analyze and synthesize relevant primary information sources, such as technical reports and scientific publications.
3) Describe various techniques used in ecological restoration, monitoring, and evaluation.
4) Assess implications of socio-economic, ethical, legal, and political dimensions of ecological restoration.

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/

None. The certificate SLOs are assessed through the required course. This request impacts electives only and not the required course.
Info
Request: Modification to the curriculum of the graduate certificate in Engineering Innovation
Description of request: The College of Engineering seeks to modify the curriculum for the graduate certificate in Engineering Innovation
Submitter: Lawrence Tinker latinker@ufl.edu
Created: 2/21/2023 4:27:44 PM
Form version: 3

Responses
Current Certificate Name
Engineering Innovation

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

Effective Year
Earliest Available

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

Change Certificate Name?
No

Change Certificate Name on Transcript?
No

Current Transcript Name
Engineering Innovation

Change Credit Hours?
No
Change Certificate Description?
No

Change Certificate Prerequisites?
No

Change Certificate Requirements?
Yes

Current Requirements

Required Courses:
EGN 6640 Engineering Entrepreneurship
EGN 6642 Engineering Innovation
EGS 6039 Engineering Leadership

Proposed Requirements

REQUIRED COURSES
EGN 6642 Engineering Innovation (3 credits; letter-graded)

Select two of the courses below:
EGN 6640 Engineering Entrepreneurship (3 credits; letter-graded)
EGS 6039 Engineering Leadership (3 credits; letter-graded)
EGS 6101 Divergent Thinking (3 credits; letter-graded)
EGS 6626 Fundamentals of Engineering Project Management (3 credits; letter-graded)

Impact on Program

The changes to the certificate's required course list are being made to allow students to satisfy the credits needed in additional combinations of courses. Engineering Innovation is remaining as the only required course for the certificate. In addition to Engineering Entrepreneurship and Engineering Leadership we are adding Divergent Thinking and Fundamentals of Engineering Project Management as courses that can be taken to satisfy the credits required for the certificate. We have had feedback from companies indicating that the combination of Innovation, Leadership, and Project Management or Divergent Thinking, are valuable skillsets from which certificate participants could benefit.

Students that have been admitted to the certificate prior to these changes will be allowed to substitute these additional courses to satisfy the certificate requirements.
Rationale for Proposed Change(s)

We have had feedback from companies indicating that the combination of Innovation, Leadership, and Project Management or Divergent Thinking, are valuable skillsets from which certificate participants could benefit.

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

None

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/

None
Certificate | Close-Modify for request 17948

Info
Request: Modification to the curriculum of the graduate certificate in Engineering Project Management
Description of request: The Herbert Wertheim College of Engineering seeks to modify the curriculum for the graduate certificate in Engineering Project Management.
Submitter: William McElroy mcelrowj@eng.ufl.edu
Created: 3/2/2023 2:50:32 PM
Form version: 5

Responses
Current Certificate Name

   Engineering Project Management

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

   Earliest Available

Effective Year

   Earliest Available

Requested Action

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

Change Certificate Name?

   No

Change Certificate Name on Transcript?

   No

Current Transcript Name

   Engineering Project Management

Change Credit Hours?

   No
Change Certificate Description?

No

Change Certificate Prerequisites?

No

Change Certificate Requirements?

Yes

Current Requirements

Grades of B or better must be obtained in all the certificate-based courses. (All are existing courses). The required courses are:
- EGS 6626 Fundamentals of Engineering Project Management - 3 credit hours and letter-graded; and
- EGS 6628 Advanced Practices in Engineering Project Management - 3 credit hours and letter-graded with EGS 6626 as the prerequisite; and
- One of the following courses:
  * ESI 6323 Models for Supply Chain Management, 3 credits and letter-graded, or
  * EIN 6510 Principles of Manufacturing Systems Engineering, 3 credits and letter-graded, or
  * ESI 6529 Digital Simulation Techniques 3 credits and letter-graded, or
  * ESI 6555 Systems Management, 3 credits and letter-graded, or
  * CCE 5035 Construction Planning and Scheduling, 3 credits and letter-graded, or
  * EML 6324 Fundamentals of Production Engineering, 3 credits and letter-graded

Proposed Requirements

Grades of B or better must be obtained in all the certificate-based courses. The required courses are:
- EGS 6626 Fundamentals of Engineering Project Management - 3 credit hours and letter-graded; and
- EGS 6628 Advanced Practices in Engineering Project Management - 3 credit hours and letter-graded with EGS 6626 as the prerequisite; and

Choose one of the following elective courses:
  * ESI 6323 Models for Supply Chain Management, 3 credits and letter-graded, or
  * EIN 6510 Principles of Manufacturing Systems Engineering, 3 credits and letter-graded, or
  * ESI 6529 Digital Simulation Techniques 3 credits and letter-graded, or
  * ESI 6555 Systems Management, 3 credits and letter-graded, or
  * CCE 5035 Construction Planning and Scheduling, 3 credits and letter-graded, or
  * EML 6324 Fundamentals of Production Engineering, 3 credits and letter-graded, or
  * EGS 6XXX Agile Project Management for Engineers and Scientists, 3 credits and letter-graded (GCC request #17947)
Impact on Program

The proposed revisions add one new course (GCC request #17947 filed) to the list of elective courses to complete the third course for the certificate. The new course addition will benefit many students pursuing completion of the certificate.

Rationale for Proposed Change(s)

The new optional course is a valuable addition to the course curricula and will provide students with the option to obtain a comprehensive understanding of the agile project management approach.

Assessment Data Review

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

All of the current student learning outcomes (listed below) are considered relevant and appropriate in supporting the proposed changes:

- Develop, plan, and manage complex projects (or tasks) that deliver products, services or technologies in an optimized and efficient manner.
- Compare, apply and recommend standard and advanced tools to analyze common engineering design and process issues that impact the development and delivery of products or services and to evaluate, assess, monitor and control progress in their development and delivery.
- Evaluate and propose methods and approaches to assess, monitor and control progress in the development, production and delivery of products, technologies or services.

Academic Assessment Plan Changes

Describe the modifications to the Academic Assessment Plan that result from the proposed change. These changes must be approved by the Academic Assessment Committee. A separate request must be completed for this, which can be found here: https://approval.ufl.edu/start-new-request/modify-aapslo-gradpro/

No modifications to the approved existing AAP will result from the proposed change.
Certificate | Close-Modify for request 18053

Info
Request: Modification to the curriculum of the graduate certificate in Natural Resource Policy and Administration
Description of request: The College of Agricultural and Life Sciences seeks to modify the curriculum for the graduate certificate in Natural Resource Policy and Administration.
Submitter: Sandra Houder shouder@ufl.edu
Created: 3/6/2023 1:14:45 PM
Form version: 4

Responses
Current Certificate Name

Natural Resource Policy and Administration

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

Earliest Available

Effective Year

Earliest Available

Requested Action

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

Change Certificate Name?

No

Change Certificate Name on Transcript?

No

Current Transcript Name

Natural Resource Policy and Administration

Change Credit Hours?

No
Change Certificate Description?
No

Change Certificate Prerequisites?
No

Change Certificate Requirements?
Yes

Current Requirements

Requirements
Natural Resource Policy and Administration Graduate Certificate (NRP)
• All students must earn a grade of B or better in each course to use it towards the NRP certificate.
• UF graduate degree-seeking students who would like to add this certificate must apply for admission before 50% of the credits are complete.

Choose 4 Electives (12 credits) from the following options:
• FNR 5625 Managing Public Lands and Waters (3 credits; Fall; letter graded)
• FOR 6005 Conservation Behavior (3 credits; Fall, even years only; letter graded), OR FOR 6934 Conservation Behavior for Practitioners (3 credits; Fall, odd years only; letter graded)
• FNR 6669 Natural Resource Policy and Economics (3 credits; Spring; letter graded)
• FOR 6934 Human and Organizational Management in Natural Resources (3 credits; Spring; letter graded)
• FNR 6061 Conflict, Collaboration, and Community Engagement in Natural Resources (3 credits; Summer C; letter graded)
• FOR 6543 Natural Resource Economics and Valuation (3 credits; Summer C; letter graded)

Proposed Requirements

We seek to change FNR 6669 from an elective to a core requirement that all students take. We seek to add two course elective options (FAS 6705 Fisheries Economics and AEB 5757 Strategic Agribusiness Human Resources Management).

Requirements
• All students must earn a grade of B or better in each course to use it towards the NRP certificate.
• UF graduate degree-seeking students who would like to add this certificate must apply for admission before 50% of the credits are complete.

Required Course (3 credits):
• FNR 6669 Natural Resource Policy and Economics (3 credits; Spring; letter graded)
Choose 3 Electives (9 credits) from the following options:

- FNR 5625 Managing Public Lands and Waters (3 credits; Fall; letter graded)
- FAS 6705 Fisheries Economics (3 credits; Fall; letter graded)
- FOR 6005 Conservation Behavior (3 credits; Fall, even years only; letter graded), OR FOR 6934 Conservation Behavior for Practitioners (3 credits; Fall, odd years only; letter graded)
- FOR 6934 Human and Organizational Management in Natural Resources (3 credits; Spring; letter graded)
- FOR 6934 Human and Organizational Management in Natural Resources (3 credits; Spring; letter graded)
- OR AEB 5757 Strategic Agribusiness Human Resources Management (3 credits; Summer B; letter graded)
- FNR 6061 Conflict, Collaboration, and Community Engagement in Natural Resources (3 credits; Summer C; letter graded)
- FOR 6543 Natural Resource Economics and Valuation (3 credits; Summer C; letter graded)

Impact on Program

Most students chose to take FNR 6669 as an elective; now all students will take FNR 6669 as a requirement. Anecdotally, students have asked for more or any FAS options; now they will have one with elective FAS 6705. FOR 6934 Human & Organizational Management in Natural Resources is a temporary course taught by an adjunct; now students will have AEB 5757 as an option, which is a permanent course offering.

Rationale for Proposed Change(s)

Students earning the same credential will now all take the same required course, FNR 6669. This will provide a solid foundation, yet students will still be able to customize the program to their interests when choosing electives. This will also simplify certificate SLO reporting. Since all students will take FNR 6669, we can now capture SLO scores for all students from aligned assignments in that course.

Assessment Data Review

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

Changing FNR 6669 from an elective to a required course will simplify certificate SLO reporting. Since all students will take FNR 6669, we can now capture SLO scores for all students from aligned assignments in that course.

FAS 6705 and AEB 5757 outcomes also support the certificate SLOs well:

FAS 6705 Learning Outcomes:

- Describe economic opportunities in in the production, use and conservation of seafood resources.
- Describe ways fishers and aquaculturists may create environmental externalities that lead to exploitation of the ecosystem.
- Describe methods by which management systems can protect natural resources.
- Analyze the impacts of management systems design relative to various stakeholder interests.
- Analyze the economic and market effects of various management systems.
• Evaluate costs and benefits associated with various uses of fisheries and coastal resources.
• Evaluate the impact of international trade on fisheries and coastal resources.

AEB 5757 Learning Outcomes:
• Evaluate the many activities that fall under the term “human resource management” and explain why these activities can be the responsibility of front-line managers with an active role in strategic planning and decision-making within an organization
• Apply federal laws governing the recruitment, selection, and management of employees
• Recognize HR management techniques in the context of motivational feedback, team-building, business communication and change management theory and procedures in HR
• Outline procedures associated with conflict resolution, discipline, and termination
• Apply important HR techniques, gained through practice and by working in teams, to gain experience in professional communication with associates and sharing feedback with employees.
• Improve written communication skills through the development of a brief research-based paper on a self-selected topic in strategic human resources management.

NRP Certificate SLOs:
1) Apply knowledge of major natural resource policies and institutions, public policy processes, policy evaluation/recommendation, stakeholder communication, and/or organizational management to public policy issues.
2) Analyze and synthesize relevant primary information sources, such as technical reports and scientific publications.
3) Apply analytic and managerial tools and techniques to identify and address natural resource conflicts, human dimensions of natural resource management, and natural resources public policy issues.
4) Assess environmental, social, economic, and institutional implications of natural resource policies on natural resource management.

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/

We plan to revamp the AAP to pull all SLO scores from SLO-aligned assignments in the newly required course, FNR 6669.
Concentration | New for request 17830

Info
Request: Graduate concentration in Disability, Health, and Participation
Description of request: The College of Public Health and Health Professions seeks to create a graduate concentration in Disability, Health, and Participation for the Doctor of Philosophy with a major in Rehabilitation Science.
Submitter: Francesca Tai frankiet@ufl.edu
Created: 3/8/2023 10:44:54 AM
Form version: 6

Responses
Proposed Action
Choose to add a new concentration if the concentration has never been offered before. In this case documentation of consent from all participating departments must be submitted.
OR,
Choose to participate in an existing concentration if the concentration has already been approved. In this case documentation of consent from all departments offering the major must be submitted.

Create a Concentration

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

Degree Level
Indicate the degree level in which to add the concentration.

D - Doctoral Degree

Thesis or Non-Thesis
is this concentration for a thesis or non-thesis degree?

Thesis

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

Disability, Health, and Participation

Credits
Enter the number of credits for the concentration. Note: as a guideline only, graduate concentrations typically range from 9-21 credits (9-12 for master's degrees, or 9-21 for doctoral degrees).
Effective Term
Enter the term (semester and year) that the concentration would start.

Fall

Effective Year

2023

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

6

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.

College of Public Health and Health Professions / Doctor of Philosophy / Rehabilitation Science

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 Rehabilitation Science doctoral (RSD) program defines rehabilitation science as a field which focuses broadly on restoring human functional capacity and improving a person’s interaction with the surrounding environment, using both basic and applied sciences. The RSD program currently has three concentrations: (1) Communication and Swallowing Sciences and Disorders, 2) Neuromuscular Plasticity, and 3) Clinical and Translational Science. The coursework for these concentrations provides knowledge about the genetic, molecular, anatomical, and neurophysical structures and mechanisms that influence a person’s functional capacity. While these underlying mechanisms may indirectly improve an individual’s function by changing body structures and functions, effective rehabilitation (including occupational therapy, physical therapy, and speech therapy), requires the use of evidence-based assessments and interventions that also directly target participation-level outcomes that are salient to people’s everyday lives.

The Disability, Health, & Participation concentration is a unique interdisciplinary field of study that advances the understanding of person, activity, and environmental factors contributing to disability, function, participation, and health. The DHP concentration adopts the World Health Organization’s International Classification of Functioning, Disability and Health (ICF) conceptualization of participation, which is defined as meaningful engagement in all areas of life and in society. The ICF states that function and disability results from the dynamic interaction between health conditions, environmental factors, and personal factors. Through research addressing these factors, the DHP concentration will equip graduates to optimize the participation and health of all people, including people with disabilities, impairments, and chronic health conditions, within their environments.

The DHP concentration requires 18 credit hours of coursework outside of other RSD program requirements. For this concentration, students will complete core courses that provide foundational theoretical knowledge to conduct disability, health, and participation research. Students also identify one scholarly focus area in which to develop advanced methodological skills that build upon the overall RSD program required 13 credits of statistics and methods. Students may choose from two scholarly focus areas: 1) Advanced methods to engage individuals and communities to inform the development of disability, health, and participation assessments and interventions in order to enhance their relevance for and adoption by individuals, rehabilitation professionals, and the community; 2) Advanced clinical trial designs and methodologies that may be used to identify optimal intervention approaches to promote health and participation. Students are required to take all core courses and at least one course within their scholarly focus, with other courses as approved by the student’s mentor. Students will integrate knowledge and skills from their core and scholarly focus area courses to conduct innovative dissertation research to promote the health and participation of individuals, communities or society.
Concentration Requirements
Students are required to complete all core courses (6 credits) that provide foundational theoretical knowledge to conduct disability, health, and participation research.

Core Courses:
•  RSD 6920: Disability, Occupation, and Participation Journal Club (1 credit, letter-graded)
•  RSD 6410: Development and Evaluation of Rehabilitation Interventions to Promote Participation (3 credits, letter-graded)
•  PHC 7752 Instrument Development for Health and Rehabilitation (2 credits, letter-graded)

Students must complete at least 12 additional credits aligned with their scholarly focus area. At least 3 of the 12 total credits must be one of the listed courses in the “Scholarly Areas” listed below. The additional 12 credits may include: 1) other courses listed in the scholarly area (below), or 2) with approval from the student’s mentor, other courses aligned with their scholarly focus area.

Scholarly Area 1 Courses: Engaging individuals and communities
  PHC 6XXX Introduction to Qualitative Research Methods in Public Health and Health Sciences (3 credits, letter-graded) (Approval #18170)
  PHC 6704 Community-Based Participatory Research (3 credits, letter-graded)
  PHC 6937 Introduction to Mixed Methods Research (3 credits, letter-graded)

Scholarly Area 2 Courses: Clinical trial methodology
  GMS 6851 Fundamentals of Dissemination and Implementation Research (3 credits, letter-graded)
  GMS 6813 Pragmatic Clinical Trials (3 credits, letter-graded)
  GMS 6885 Translational Health Research Design (3 credits, letter-graded)

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

To support the core coursework required for this concentration, we are requesting revisions to PHC 7752 Seminar in Instrument Development for Public Health, to become RSD 7752 Measurement Development for Health and Rehabilitation. (Approval #17956)

One course listed as part of the “Advanced methods to engage individuals and communities” scholarly area PHC 6704 requires a prerequisite for PHC students but has agreed to waive that prerequisite for our students. Please see the attached documentation.

All other courses listed in the two scholarly areas are open to all students.
Request: Modification to the curriculum of the graduate concentration in Health Data Science.

Description of request: The College of Public Health and Health Professions seeks to modify the curriculum for the graduate concentration in Health Data Science.

Submitter: Francesca Tai, frankiet@ufl.edu

Created: 3/13/2023 11:48:50 AM

Form version: 7

Responses

Degree Level

Indicate the degree level in which the concentration is offered.

- M - Master's Degree

Thesis or Non-Thesis

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

- Non-Thesis

Concentration

Enter the name of the concentration to be modified.

- Health Data Science

Effective Term

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

- Fall

Effective Year

- 2023

Is this an undergraduate Innovation Academy Program

- No

Department/Degree/Majors to Offer Concentration

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

- Department of Biostatistics / Master of Science / Biostatistics

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

Concentration Core Courses:
- PHC 6097 Statistical Learning with Applications in Health Science (3 credits, letter-graded)
- PHC 6791 Data Visualization in Health Sciences (3 credits, letter-graded)
- PHC 6068 Biostatistical Computing (3 credits, letter-graded)

Proposed Concentration Changes

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

Concentration Core Courses:
- PHC 6097 Statistical Learning with Applications in Health Sciences (3 credits, letter-graded)
- PHC 6791 Data Visualization in Health Sciences (3 credits, letter-graded)
- PHC 6XXX Programming Basics for Biostatistics (3 credits, letter-graded) (Approval #18127)

Pedagogical Rationale/Justification

Describe the rationale for the proposed changes to the concentration.

PHC6068 Biostatistical Computing is being modified to be a 7000-level course that is most appropriate for PhD students. The new course, PHC6XXX Programming Basics for Biostatistics, will cover the fundamental computing skills required for MS biostatistics students in our health data science concentration as well as any other graduate students seeking the basic programming skills required to analyze data. Active students who are participating in this area of emphasis may opt to complete the current curriculum or opt to transition to the new curriculum.

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.

This change will not have any impact on other programs or departments.

Assessment Data Review

Describe the Student Learning Outcomes and/or program goal data that was reviewed to support the proposed changes.
Feedback provided showed current course is more appropriate for advanced MS students and PhD students. The new course is more appropriate for MS students.

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

No modifications needed as a result of this change.

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
Major | Modify_Curriculum for request 18129

Info
Request: Modify the curricular requirements for master and doctoral degree programs with a major in statistics.
Description of request: The Department of Statistics with approval from the College of Liberal Arts and Sciences requests curricular changes for the Master of Statistics, the Master of Science in Statistics, and the Doctor of Philosophy with a major in Statistics.
Submitter: Michael Daniels daniels@ufl.edu
Created: 3/13/2023 1:29:28 PM
Form version: 10

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

Statistics

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

STA

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

Statistics

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.

Fall

Effective Year

2023

Current Curriculum for Major

The current core curriculum includes the following courses:
STA 6329 (3 credits; letter-graded)
STA 6207 (3 credits; letter-graded)
STA 6326 (3 credits; letter-graded)
STA 6208 (3 credits; letter-graded)
STA 6327 (3 credits; letter-graded)

Second Year:
STA 6246 (3 credits; letter-graded)
STA 7467 (3 credits; letter-graded)
STA 7346 (3 credits; letter-graded)
STA 7466 (3 credits; letter-graded)
STA 7249 (3 credits; letter-graded) Total
Amount of Credit: 30 credits

The core courses for the Master of Science in Statistics (36 credits) and the Master of Statistics (30 credits) are the same. The first year courses + STA 6246

The core courses for the PhD in Statistics include all the first and second year courses listed above.

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.

The new core curriculum proposed includes the following courses:

First Year:
STA 6275 (3 credits; letter-graded)
STA 6207 (3 credits; letter-graded)
STA 6326 (3 credits; letter-graded)
STA 6276 (3 credits; letter-graded)
STA 6327 (3 credits; letter-graded)
STA 6246 (3 credits; letter-graded)

Second Year:
STA 7466 (3 credits; letter-graded)
STA 7346 (3 credits; letter-graded)
STA 7249 (3 credits; letter-graded)
STA 7467 (3 credits; letter-graded)
STA 7233 (3 credits; letter-graded) Total
Amount of Credit: 33 credits

The core courses for both Master’s degrees are the same:

STA 6207, 6275, 6276, 6326, 6327, 6246 (just the first year courses from the PhD curriculum above)
The Master of Science in Statistics requires a thesis (the Master of Statistics does not). The former is 36 credits with the latter is 30 credits.

The PhD degree requires the core courses for the Master’s degree + the following core courses: STA 7233, 7249, 7346, 7466, 7467

Summary of the curriculum updates:

STA 6329 has been replaced by the two-semester computing sequence: STA 6275 and STA 6276.
STA 6246 has been moved to the first-year curriculum.
STA 7233 has been added to the PhD curriculum.
STA 6208 has been removed from the core curriculum.

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.*

Given the increased importance of computing in statistics (and data science), we have replaced an unneeded course that mostly focused on matrix algebra (STA 6329 - this is a review for most students) with a modern two-semester computing sequence (STA 6275, STA 6276). In terms of methodology, we replaced the somewhat dated design of experiments course (STA 6208) with a modern methods course, advanced regression (STA 7233).

Impact on Enrollment, Retention, Graduation
*Describe any potential impact of the curriculum changes on students who are currently in the major.*

None

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

A review of our student placements over time suggests that our students have become somewhat less competitive in the job market, especially in terms of obtaining tenure-track positions at major research universities. As a whole, our faculty believe that one reason for this problem is that our core PhD and MS curricula have become somewhat "old-fashioned" and should be updated to include important, modern topics in both computing and methodology.

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.*
We do not believe it necessary to make changes to the academic assessment plan. For the PhD program, we will continue to use the PhD Part I Exam as the main assessment method for the SLOs, except that the questions on future exams will be used to evaluate the student’s understanding of the material in the new and remaining PhD core courses. Similarly, for the master’s programs, we will continue to use the first-year exam as the main assessment method for the SLOs, except that the questions on future exams will be used to evaluate the student’s understanding of the material in the new and remaining MS core courses.

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
Major Modify_Curriculum for request 18366

Info
Request: Modify the curriculum for the HEB MS degree program
Description of request: The Department of Health Education and Behavior with approval from the College of Health and Human Performance seeks to modify the curriculum for students participating in thesis and project-in-lieu-of-thesis degree program options for the Master of Science with a major in Health Education and Behavior.
Submitter: Amy Mobley amy.mobley@mail.ufl.edu
Created: 3/13/2023 3:28:23 PM
Form version: 3

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

Health Education and Behavior

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

HEB

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

Master of Science with a major in Health Education and Behavior

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.

Fall

Effective Year

2023

Current Curriculum for Major

The current required curriculum credits for the Master of Science with a major in Health Education and Behavior is 30 credits for the non-thesis track and 36 credits for the thesis and project-in-lieu of thesis tracks.
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.

The Department of Health Education and Behavior with approval from the College of Health and Human Performance seeks to modify the curriculum for students participating in thesis and project-in-lieu-of-thesis degree program options for the Master of Science with a major in Health Education and Behavior. The core curriculum course credits for the MS program would not change but the total overall required credits would be equalized among the thesis, project-in-lieu of thesis and non-thesis tracks to equal 30 credits which is the current requirement for the non-thesis track. The change does not affect the complexity of the degree, and the contents of the requirements are still equal in value.

UF Online Curriculum Change

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

Yes

Pedagogical Rationale/Justification

Describe the rationale for the proposed changes to the curriculum.

The rationale for the proposed reduction in MS thesis and project-in-lieu of thesis track credits is to equalize the total number of required credits between the non-thesis and thesis and project-in-lieu of thesis of track for the MS degree in Health Education and Behavior (HEB). Currently, the thesis and project-in-lieu of thesis track requires 6 more credits than the non-thesis track which is a potential barrier to students enrolling in the thesis track. An increase in the number of thesis and project-in-lieu of thesis track MS students in HEB is desirable because it would provide advanced research and evaluation training to the students and better prepare them for further graduate studies (i.e. PhD) and/or research related career opportunities.

As of January 2023, there are 100 MS students enrolled in the HEB graduate program but, there are no thesis or project in-lieu of thesis track students. Since 2018, there have only been 3 MS students (2%) out of 143 total who graduated and completed a thesis or project-in-lieu of thesis in HEB.

The proposed reduction in MS thesis track credits would equalize the total number of required credits between the non-thesis and thesis track for the MS degree in HEB. Having more MS students complete a thesis or project-in-lieu of thesis is desirable because it would provide advanced research and evaluation training to the students and better prepare them for further graduate studies (i.e. PhD) and/or research related career opportunities.
Impact on Enrollment, Retention, Graduation

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

There may be an increase in the number of MS students who enroll in the thesis and/or project in- lieu of thesis track resulting in overall increased enrollment in the MS program in HEB, or, at minimum, a proportional increase of MS students pursuing the thesis or project-in- lieu of thesis track overall as a result of the change to the required number of thesis or project in-lieu of thesis credits (i.e. reduction to 30 credits from 36 credits). As of January 2023, there are currently 100 MS students enrolled in the HEB graduate program but, there are no thesis or project-in-lieu of thesis track students. Since 2018, there have only been 3 MS students (2%) out of 143 total who completed a thesis or project-in-lieu of thesis in HEB.

In addition, HEB may experience an increased enrollment in the PhD program as a result of MS thesis or project-in-lieu of thesis track graduates continuing onto the PhD program.

Assessment Data Review

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

Student learning outcomes would not be impacted by this change because both thesis and non-thesis track students are required to complete the same core curriculum courses.

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.

Pending approval of the change in credits, Program Goal 2 could be modified in a future request to remove the ‘non-thesis’ qualifying language as a result of the proposed change.

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
Graduate Curriculum Committee
Minutes

February 9, 2023
Meeting Materials

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

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

CALS - SFRC - Forest Resources and Conservation

1. FOR 6XXX  
   **Issues in Southeastern Forest Health**  
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17679](https://secure.aa.ufl.edu/Approval/reports/17679)  
   Proposal has been approved by the GCC with a note to correct the syllabus before it is provided to students.

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

   There are no course modifications to present at this time.

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

ENG - Civil and Coastal Engineering

1. CGN 6XXX  
   **Applied Data Science in Civil and Environmental Engineering**  
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17803](https://secure.aa.ufl.edu/Approval/reports/17803)  
   Proposal has been approved by the GCC.

2. CGN 6XXXXC  
   **Structural Health Monitoring**  
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17846](https://secure.aa.ufl.edu/Approval/reports/17846)  
   Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.
3. EEX 6XXX  *Classroom Applications of Applied Behavior Analysis (ABA)*  
Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17763](https://secure.aa.ufl.edu/Approval/reports/17763)  
Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

4. EEX 6XXX  *Concepts and Principles of Applied Behavior Analysis*  
Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17882](https://secure.aa.ufl.edu/Approval/reports/17882)  
Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

ENG - Nuclear and Radiological Engineering

5. ENU 6XXXL  *Nuclear Fuels and Materials Laboratory*  
Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17653](https://secure.aa.ufl.edu/Approval/reports/17653)  
Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

ENG - Civil and Coastal Engineering

6. TTE 6XXX  *Fundamentals of the Transportation Profession*  
Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17860](https://secure.aa.ufl.edu/Approval/reports/17860)  
Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

VM - Physiological Sciences

7. VME 6XXX  *Ecological Risk Assessment*  
Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17680](https://secure.aa.ufl.edu/Approval/reports/17680)  
Proposal has been conditionally approved. Once revised, the proposal can be administratively approved without further review by the GCC.

V. Information Items:

There are no information items to present at this time.
Graduate Curriculum Committee

Agenda

March 9, 2023
Meeting Materials

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

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

There are no updates to present at this time.

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

There are no modifications to present at this time.

IV. New Course Proposal(s) from the University Curriculum Committee: The following are newly requested course proposals that were presented at the February UCC meeting. Proposed course titles and descriptions are listed below.

CLAS – Anthropology

1. ANG 5930  *Special Topics*  
   Link to proposal: [https://secure.aa.ufl.edu/Approval/reports/18001](https://secure.aa.ufl.edu/Approval/reports/18001)  
   Special topics in Anthropology. (May be repeated as topics vary)

ENG – Mechanical & Aerospace Engineering

2. EGM 5XXX  *Modeling and Control of Biomolecular Machines*  
   Link to proposal: [https://secure.aa.ufl.edu/Approval/reports/17933](https://secure.aa.ufl.edu/Approval/reports/17933)  
   Overview of biomolecular systems engineering. Introduction to cell processes, biochemical kinetics, models of biological macromolecules, analyses of biomolecular dynamics, simulation of stochastic behaviors, common gene regulatory network motifs, and the design of synthetic biology circuits.
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.

HHP – Applied Physiology and Kinesiology

1. APK 6XXX  **MATLAB for Biomedical Sciences**
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17628](https://secure.aa.ufl.edu/Approval/reports/17628)

   This course introduces MATLAB foundations to code, compute, analyze, and plot research data in biomedical sciences. Each week, the course consists of a 1-hour didactic lecture and a 2-hour lab session dedicated to Q & As and troubleshooting non-working codes.

ENG – Electrical and Computer Engineering

2. EEE 5XXX  **Introduction to RF Circuits**
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17829](https://secure.aa.ufl.edu/Approval/reports/17829)

   Introductory course on the radio frequency (RF) fundamentals and related circuits with topics of impedance matching, Smith Chart, s-parameters, waveguides, resonators, filters, active devices and amplifiers.

3. EEL 5XXX  **Control of Biological Systems**
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17758](https://secure.aa.ufl.edu/Approval/reports/17758)

   The automatic control principles that govern critical processes in human biology are explored. Through the development of mathematical models of biological systems, the course creates an understanding of metabolic, immunologic, and genetic processes. Applications include the manufacture of vaccines, monoclonal antibodies, cancer treatments, insulin, and many others.

ENG – Engineering – General

4. EGS 6XXX  **Agile Project Management for Engineers and Scientists**
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17947](https://secure.aa.ufl.edu/Approval/reports/17947)

   Provides students with a comprehensive understanding of the agile mindset, and why agility is often needed when managing complex-adaptive products and projects in a volatile and uncertain environment. The course promotes agile thinking and applications using the Scrum framework and identifies conditions that enable (and disable) personal and organizational agility.

PHHP – Public Health

5. PHC 6XXX  **Foundations of Public Health**
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/18145](https://secure.aa.ufl.edu/Approval/reports/18145)
Introduces public health and healthcare within the US and globally, emphasizing the effect of positionality and the interconnectedness of population and individual health. Course topics include public health history and impact, the role of ethics and evidence, and the importance of health equity and human rights.

6. **PHC 6XXX**  
   *Introduction to Qualitative Research Methods for Public Health and Health*
   
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/18170](https://secure.aa.ufl.edu/Approval/reports/18170)

   Explore and begin to learn qualitative research methods for public health and the health sciences. Students will learn the history, philosophical assumptions and interpretive frameworks, foundations of research design, data collection and data analyses of qualitative research in the health sciences. Students obtain an understanding how qualitative research is used in various fields of study and how to best apply it to public health and the health sciences.

PHHP – Biostatistics

7. **PHC 6XXX**  
   *Programming Basics for Biostatistics*
   
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/18127](https://secure.aa.ufl.edu/Approval/reports/18127)

   Intended to develop your programming skills to perform biostatistical computing. The course will include both R programming language using the RStudio interface and Python programming language using the Anaconda interface. Topics include data structure, file input/output, visualization, data manipulation, basic statistical inference, and reproducible reports using markdown languages.

8. **PHC 7XXX**  
   *Advanced Statistical Learning for Biostatistics*
   
   Link to proposal:  [https://secure.aa.ufl.edu/Approval/reports/17265](https://secure.aa.ufl.edu/Approval/reports/17265)

   Advanced course in statistical learning, which covers a broad range of methods and their applications in high-dimensional data analysis. Many of these methods go far beyond classical statistical methods and are developed for addressing modern problems we encounter in public health and medical science settings.

VI. **Information Items:**

1. **ANG 6592** – 18147 – Change to course title
2. **PHA 6211** – 18019 – Change to course title and description