

4 May 2023

TO: Faculty Senate

FROM: Amy Lubitow, Chair, Graduate Council

RE: June 2023 Consent Agenda

The following proposals have been approved by the Graduate Council and are recommended for approval by the Faculty Senate.

You may read the full text for any course or program proposal, as well as Budget Committee comments on new and change-to-existing program proposals, at the [Online Curriculum Management System \(OCMS\) Curriculum Dashboard](#).

College of the Arts

New Course

E.1.a.1

- Mus 579 Wellness for Musicians, 2 credits
Musicians will learn to prevent injury and create a healthy lifestyle, focusing on the “Big Seven” wellness categories: Community, Self-Reflection, Nutrition, Exercise, Creativity, Sleep/Rest and Environment. Students explore course topics through lectures, journaling, essays, discussions, master classes, a research project and movement activities. Topics of study include: relationship with self, community and environment, nutrition, yoga, exercise, breathing, meditation, sleep and rest, hearing loss prevention, practice techniques, Body Mapping and the Alexander Technique.

School of Business

Change to Existing Programs

E.1.a.2

- Graduate Certificate in Athletic & Outdoor Industry—revise requirements

E.1.a.3

- Graduate Certificate in Business Intelligence and Analytics – revise core curriculum and reduce minimum credits from 21 credits to 17 credits

E.1.a.4

- M.B.A. in Business Administration – revise core and electives, revise Finance option coursework, add new course to waiver policy, and reduce minimum credits from 62 credits to 60 credits

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.

E.1.a.5

- Master in Real Estate Development – change name to M.S. in Real Estate

E.1.a.6

- M.S. in Applied Data Science for Business—revise certificate options and add capstone requirement

E.1.a.7

- M.S. in Finance—add certificate option

New Courses

E.1.a.8

- BA 531 Leadership Challenges and Insights, 2 credits
Presents a detailed but flexible framework for leading others. In BA 521, we focused on the emotional intelligence of effective leaders. In this course, we turn our attention to the specific leadership behaviors that drive high morale and excellent business results. Specific topics include: Leading by example, visionary leadership, leading change, driving positive results, and bringing out the best in others. We will also discuss common leadership mistakes that can derail one's ability to lead effectively. Prerequisite: BA 521.

E.1.a.9

- BA 550 Special Topics in Advanced Leadership, 1-4 credits
Selected topics in Advanced Leadership for Career Advancers. Potential topics include Global Leadership, Executive Dilemmas and Decisionmaking, Leading Corporate Sustainability Initiatives. Prerequisite: BA 521.

E.1.a.10

- BTA 511 Business Data Management with SQL, 4 credits
Provides students the opportunity to have exposure to solving the business problem by analyzing data using SQL.

E.1.a.11

- BTA 512 Business Data Analytics with Python, 4 credits
Provides students the opportunity to have exposure to solving the business problem by analyzing data using Python.

E.1.a.12

- BTA 525 Applied Data Science for Business Capstone Consulting Experience, 4 credits
Provides students the opportunity to have a significant, hands-on experience that builds upon the foundation of the core of the MS-ADSB program. Students, operating as part of a consulting team, work closely with a client to help to solve a digital transformation oriented

business problem. The scope of the project is ~600 hours of research as a group on the behalf of the client.

E.1.a.13

- BTA 553 Enterprise Data Visualization for Decision Making, 4 credits
Provides students the opportunity to have exposure to solving the business problem and presenting solutions using current visualization tools.

E.1.a.14

- Mgmt 535 Principles of Sustainability in the Athletic & Outdoor Industry, 4 credits
Equips students with practical working knowledge of the critical issues, organizations, and tools related to sustainability in the global apparel, textiles, and footwear industry through the athletic and outdoor sector lens. Topics will include raw materials, manufacturing, chemistry, circularity, degrowth, reporting, etc. Guest speakers from sustainability leadership roles across the industry will supplement lectures and small group discussions.

E.1.a.15

- Mgmt 557 Business Law and Corporate Governance, 2 credits
Provides an overview of the legal system and how the rules within that system impact corporate governance and board and executive decision making. We will also consider a shifting view of the role of the corporation from shareholder focused to a broader stakeholder focus.

Changes to Existing Courses

E.1.a.16

- BA 526 MBA International Experience, 4 credits – change credit hours to 5 credits

E.1.a.17

- BA 527 MBA Domestic Business Experience, 4 credits – change credit hours from 4 credits to 2 credits, change repeatability

E.1.a.18

- *Fin 573 Investment Analysis and Portfolio Management, 4 credits – change title to Student Managed Stock Fund, description, credit hours from 4 credits to 2 credits, prerequisite, repeatability, grading option, and instructional method

College of Education

Change to Existing Program

E.1.a.19

- M.A./M.S. in Education: Counselor Education – revise School Counseling specialization

* This course is part of a dual-level (400/500) course. For any revisions associated with the 400-level section please refer to the Undergraduate Curriculum Committee consent agenda memo.

New Courses

E.1.a.20

- Coun 556 Counseling Children in schools, 3 credits
Theoretical overview of growth and development of children. Emphasis on translating theory into practice through a "person-environment interaction" conception of counseling, consultation, and educational intervention in school settings.

E.1.a.21

- Coun 557 Counseling youth in schools, 2 credits
Theoretical overview of growth and development of youth. Emphasis on translating theory into practice through a "person-environment interaction" conception of counseling, consultation, and intervention in school settings. This course will specifically focus on the uniqueness of adolescent development, including identity development, peer influences, and specific adolescent issues. Appropriate counseling strategies and theories for adolescents will be introduced.

E.1.a.22

- ECED 590 Action Research Proposal, 3 credits
Designed to help educators see themselves as researchers so that they can conduct research in educational settings that contribute to the improvement of education. Knowledge of accessing and using research literature, the range of educational research paradigms and using appropriate research methods included. Students will develop a proposal for an action research project related to improving educational outcomes for all learners. This is the same course as CI 590 and may be taken only once for credit.

E.1.a.23

- ECED 591 Action Research Implementation, 3 credits
Implementation of action research project designed in CI 590/ECED 590. Discuss issues related to implementation of action research project designed in CI 590/ECED 590. Learn skills to analyze data collected during implementation of action research proposal from surveys, interviews, focus groups, observation, journaling, writing and concept maps. Develop critical thinking abilities to analyze, synthesize and evaluate research results. Present final project in written paper. This is the same course as CI 591 and may be taken only once for credit. Prerequisite: ECED 590 OR CI 590.

Changes to Existing Courses

E.1.a.24

- CI 590 Action Research Proposal, 3 credits – add cross-listing with ECED 590

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E.1.a.25

- CI 591 Action Research Implementation, 3 credits – add cross-listing with ECED 591, change description and prerequisite

E.1.a.26

- Coun 526 Effective Teaching, 2 credits – change title to Effective teaching in school counseling, description, credit hours from 2 credits to 3 credits, repeatability

Maseeh College of Engineering and Computer Science

New Courses

E.1.a.27

- CE 515 Machine Learning Methods for Civil and Environmental Engineers, 4 credits
Fundamentals of supervised learning and common machine learning models including linear and logistic regression, support vector machines, artificial neural networks, and decision trees/random forests; Hands-on implementation using Python-based tools such as Scikit-Learn, Keras, and TensorFlow.

E.1.a.28

- CE 575 Ecohydrology, 4 credits
Use of deterministic and probabilistic tools to model water, carbon, and nutrient fluxes through soils, plants, and the atmosphere. Will cover the fundamentals of rainfall interception and partitioning, soil moisture and biogeochemistry, plant water use and photosynthesis, and transport through the atmospheric boundary layer.

E.1.a.29

- *CS 518 Cultural Competence in Computing, 3 credits
Students will learn about different identities (e.g., race, ethnicity, gender, class, sexuality, and ability), understand how algorithmic bias in technology affects different identities, and learn how to create accessible and equitable products and more inclusive communities at school, in industry, and beyond. Prerequisite: Admission to the program.

E.1.a.30

- ECE 550 Post-Silicon Functional Validation, 4 credits
Post-silicon validation is an essential part of IC design and manufacturing process. This course presents major concepts and methods for post silicon validation, along with comparison to pre-silicon validation techniques. Topics covered include validation tools and methods after a design is implemented in silicon, writing a validation plan, how to choose and use a validation tool, white-box and black-box validation, and automation of testing. In addition to class

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lectures and discussions, students will work on multi-step projects in phases utilizing techniques learned in the class. Prerequisite: Graduate standing in ECE or permission of instructor.

Changes to Existing Courses

E.1.a.31

- *CE 595 Sustainable Transportation in the Netherlands, 5 credits – change title to Sustainable Transportation Abroad and change description

E.1.a.32

- *CS 591 Introduction to Computer Security, 3 credits – change description and prerequisite

E.1.a.33

- *CS 596 Network Security, 3 credits – change prerequisite

E.1.a.34

- ETM 522 Communication and Team Building, 4 credits – change title to Leveraging Human Capital and change description

E.1.a.35

- ETM 527 Competitive Strategies in Technology Management, 4 credits – change title to Data Mining for Business and change description

E.1.a.36

- ETM 555 Technology Marketing, 4 credits – change description

College of Liberal Arts and Sciences

Change to Existing Programs

E.1.a.37

- M.A./M.S. in Psychology – add 45 credit a non-thesis option

E.1.a.38

- P.S.M. in Environmental Science and Management—restructure program to make it stackable (two certificates required) and increase minimum credits from 47 credits to 48 credits

New Courses

E.1.a.39

- G 521 Anatomy and History of Disasters, 4 credits
This is survey of major natural disasters (both geological and weather related ones) that affect humans, focusing on causes, effects, recovery, planning and prediction. Many case histories will be covered with an emphasis on the Pacific Northwest.

E.1.a.40

- *Geog 544 Political Ecologies of the Western US, 4 credits
Local dynamics of socio-environmental change are situated within broader political, economic, and ecological processes at the regional and global scales. This course takes a regional political ecology approach to study the Western US, a region which has undergone significant and rapid social and environmental changes in recent decades. The course covers topics such as water and hydro-social politics, land management, Indigenous studies, exurban development, energy, agri-food systems, environmental restoration, and the Anthropocene.

E.1.a.41

- *Wr 534 Science Writing, 4 credits
Prepares students to be effective writers and communicators about science for both scientific and public audiences. Students will study a variety of genres of scientific writing, including scientific research reports, research posters, research proposals, science journalism, science non-fiction, and various digital genres (e.g., blogs and websites). Using these examples, they will learn rhetorical and stylistic strategies for writing about science for multiple audience types.

Changes to Existing Courses

E.1.a.42

- Soc 537 Qualitative Data Analysis, 4 credits – change description

E.1.a.43

- Soc 538 Integrating Qualitative and Quantitative Methods, 4 credits – change description

E.1.a.44

- *Soc 544 Race, Ethnicity, and Nationality, 4 credits – change description

E.1.a.45

- *Soc 548 Sociology of Education, 4 credits – change description

E.1.a.46

- Soc 592 Qualitative Methods, 4 credits – change description

E.1.a.47

- Soc 593 Quantitative Methods, 4 credits – change description

E.1.a.48

- Soc 637 Qualitative Data Analysis, 4 credits – change description

E.1.a.49

- Soc 638 Integrating Qualitative and Quantitative Methods, 4 credits – change description

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School of Public Health

New Course

E.1.a.50

- *PHE 528 Stress, Food and Health, 4 credits
This survey course is designed to provide students with basic information concerning the interaction of biological, psychological, behavioral, social and cultural processes that function in the intersection of food, eating behaviors, and short- and long-term health outcomes. A particular emphasis will be placed on the impact of stress and social determinants on these relationships. In this course we will explore the complicated determinants of eating and physical activity behaviors and identify key leverage points for effective interventions for promoting healthy eating.

Changes to Existing Courses

E.1.a.51

- CPH 511 Research Methods and Evidence-based Practice, 3 credits – change title to Introduction to Research Design

E.1.a.52

- CPH 611 Research Methods and Evidence-based Practice, 3 credits – change title to Introduction to Research Design

School of Social Work

New Course

E.1.a.53

- SW 573 Practice Skills for the Treatment of Substance Use Disorders, 3 credits
Direct practice skills for the conceptualization, assessment and treatment of substance use disorders within social work are centered in this practice focused elective. Building on the theoretic foundations introduced in SW 571 Substance Use and Misuse, the course will review and critique screening and assessment tools (including ASAM, SBIRT, DSM-5), evidence based treatment modalities (CBT/DBT, Integrated Care, Case Management, MAT and harm reduction) and address ethics, self-care and recovery in practice. Prerequisite: SW 571.

College of Urban and Public Affairs

Change to Existing Programs

E.1.a.54

- Graduate Certificate in Emergency Management and Community Resilience – consolidate elective lists and revise core courses

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E.1.a.55

- Master of Urban and Regional Planning – revise requirements to reflect changes in course credit hours

E.1.a.56

- M.S. in Criminology and Criminal Justice – reduce core requirement and increase elective requirement

E.1.a.57

- M.S. in Emergency Management and Community Resilience – revise core and skills/methods requirements, add elective section, and reduce minimum credits from 53 credits to 45 credits

Changes to Existing Courses

E.1.a.58

- EMCR 520 Anatomy and History of Disasters, 4 credits – change course number to EMCR 521 and add cross-listing with G 521

E.1.a.59

- EMCR 560 Climate Resiliency Planning, 3 credits – change description

E.1.a.60

- USP 520 Applied Demographic Methods I, 4 credits – change title to Demographic Methods: Population Dynamics and change description

E.1.a.61

- USP 525 Design Analysis in Planning, 2 credits – change description, change credit hours from 2 credits to 3 credits

E.1.a.62

- USP 542 Land Use Implementation, 3 credits – change description

E.1.a.63

- USP 553 Legal Processes in Urban Planning, 1 credit – change title to Foundations of Planning Law, change description, and change credit hours from 1 credit to 2 credits

E.1.a.64

- USP 560 Climate Resiliency Planning, 3 credits – change description

E.1.a.65

- USP 561 Affordable Housing Development Workshop, 5 credits – change credit hours from 5 credits to 1-5 credits and change repeatability

E.1.a.66

- USP 584 Negotiation in the Public Sector, 4 credits – change credit hours from 4 credits to 2-4 credits