

Note from Secretary: Prior to approval of the Consent Agenda at the 4 June 2018 Faculty Senate meeting, a correction was made to items E.1.a.52-54 as originally published, viz., that these items should be listed as actions of the School of Public Health.

May 10, 2018

TO: Faculty Senate

FROM: Mark Woods (Chair, Graduate Council)

RE: Submission of Graduate Council for Faculty Senate

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 Faculty Senate Budget Committee comments on new and change-to-existing program proposals by going to the PSU Curriculum Tracking System at <http://psucurriculumtracker.pbworks.com> and looking in the 2017-18 Comprehensive List of Proposals or by going to the [Online Curriculum Management System \(OCMS\) Curriculum Dashboard](#) to access and review proposals.

College of Liberal Arts and Sciences

Change to Existing Programs

E.1.a.1

- MA/MS in Book Publishing - change to existing program: add new requirement

E.1.a.2

- PHD in Mathematical Sciences - change to existing program: reduce total credits and change requirements, add qualifying exam

New Courses

E.1.a.3

- *BI 537 Physiological Adaptations to Extreme Environments, 3 credits
Cellular, biochemical and physiological adaptations that allow animals to thrive in the Earth's harshest habitats with a focus on what makes species from extreme environments unique.

E.1.a.4

- SOC 579 Food, Justice, and Social Movements, 4 credits
This seminar examines growing social movements around food and agriculture. Includes theoretical and conceptual frameworks for understanding historical and current dynamics in the global food and agriculture system, and debates over land grabs, food price crises, hunger, and the role of biotechnology, agribusiness, and low-input peasant agriculture. Case studies examine social movements around land and food in the global South and North. Concludes with alternative models and emerging paradigms, including food sovereignty and food justice.

E.1.a.5

- SOC 679 Food, Justice, and Social Movements, 4 credits
This seminar examines growing social movements around food and agriculture. Includes theoretical and conceptual frameworks for understanding historical and current dynamics in the global food and agriculture system, and debates over land grabs, food price crises,

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hunger, and the role of biotechnology, agribusiness, and low-input peasant agriculture. Case studies examine social movements around land and food in the global South and North. Concludes with alternative models and emerging paradigms, including food sovereignty and food justice.

E.1.a.6

- *WR 566 Digital Skills, 4 credits

Gives hands-on training in digital skills and surveys developmental trends in writing in computational environments: webpages, computer programs, word processing programs, multimodal essays. Learn core principles and methods of web design, web management, media history, and present-day uses of authoring software. Assess scholarly articles about writing and reading in computational environments.

E.1.a.7

- *WR 578 Digital Marketing for Book Publishers, 4 credits

This course examines the contexts and impacts of digital book marketing on the book industry, authors, and readers.

Change to Existing Courses

E.1.a.8

- *ENG 511 English Drama, 4 credits - change course description, change repeatability, change grading option

E.1.a.9

- *ENG 512 English Drama, 4 credits - drop course

E.1.a.10

- *ENG 521 African Fiction, 4 credits - drop course

E.1.a.11

- *ENG 522 African Fiction, 4 credits - change course description, change repeatability, change grading option

E.1.a.12

- *ENG 541 Advanced Topics in Renaissance Culture, 4 credits - change course title to Advanced Topics in Renaissance Literature, change course description, change repeatability, change grading option

E.1.a.13

- *ENG 543 British Women Writers, 4 credits - drop course

E.1.a.14

- *ENG 544 British Women Writers, 4 credits - change course description, change repeatability, change grading option

E.1.a.15

- *ENG 545 American Women Writers: 19th Century, 4 credits - change course title to American Women Writers, change course description, change repeatability, change grading option

E.1.a.16

- *ENG 546 American Women Writers: 20th Century, 4 credits - drop course

E.1.a.17

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- *ENG 548 Major Figures in Literature, 4 credits - change course title to Advanced Topics: Major Figures in Literature, change course description, change repeatability, change grading option

E.1.a.18

- *ENG 550 Advanced Topics in Eighteenth Century Literature, 4 credits - change course title to Advanced Topics in Eighteenth-Century Literature, change course description, change repeatability, change grading option

E.1.a.19

- *ENG 577 American Poetry, 4 credits - drop course

E.1.a.20

- *ENG 578 American Poetry, 4 credits - drop course

E.1.a.21

- *PH 571 Atmospheric Physics, 4 credits - change course title to Global Climate Change: Science and Policy, change course description, change prereqs

School of Business

New Courses

E.1.a.22

- MGMT 540 HR Analytics Rapid Evidence Assessments, 2 credits
Learn the skills necessary to leverage existing research and evidence in order to produce key HR questions and answers. Topics covered include framing appropriate questions, choosing research sources, conducting rapid evidence assessments, and understanding how to complete a critically appraised topic (CAT).

E.1.a.23

- MGMT 541 Introduction to HR Analytics, 4 credits
Introduction to the foundations of human resource (HR) analytics. Topics include theory and practice regarding HR information systems, psychological theory, descriptive, predictive, and prescriptive analytics, ethics, legal issues, data privacy/security, and visualizations. Students will engage in case analyses and reflections, and introductory data-management and analytics exercises.

E.1.a.24

- MGMT 543 HR Metrics and Analytics in Daily Operations, 2 credits
Organizations vary regarding the extent to which they leverage HR metrics and analytics in daily operations. This course focuses on a variety of contemporary applications. Assigned readings and exercises inform students about the advantages and disadvantages of different applications, and how to develop effective HR metrics and analytics.

E.1.a.25

- MGMT 552 HR Analytics Capstone, 4 credits
Continuation of the HR Analytics Tools and Applications course. It delves deeply into HR analytics, taking students from a beginner to an intermediate level of proficiency in

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key HR analytical tools and strategies. Emphasis is placed on integrating data analytic approaches culminating in a term-long project. Prerequisite: Mgmt 542.

E.1.a.26

- **MGMT 553 HR Data Visualization and Storytelling, 2 credits**
Focuses on the importance of communicating data analytics findings to different audiences in a proficient, convincing, and compelling manner. The art of storytelling with data will focus on assembling key data analytics findings, creating data visualizations, and communicating the information to different stakeholders.

Change to Existing Courses

E.1.a.27

- ***MGMT 542 Human Resources Information Systems & People Analytics, 4 credits - change course title to HR Analytics Tools and Applications, change course description, remove 400-level slash course**

Graduate School of Education**Change to Existing Programs**

E.1.a.28

- **MA/MS in Education: Counselor Education - change to existing program: clinical mental health counseling specialization - remove requirement, add new requirement and electives**

E.1.a.29

- **MED in Education - Secondary Dual Educator Program (SDEP) track - change to existing program: revise SDEP track curriculum and licensure requirements**

New Courses

E.1.a.30

- ***SPED 532 Inclusive Practices, 2 credits**
This course prepares teacher candidates to use evidence-based practices to support students with diverse learning needs to gain access to the general education curriculum. Incorporating Universal Design for Learning as a framework, teacher candidates will plan, implement and assess study skills and learning strategies for students in all academic areas. Prerequisite: Admission to program.

E.1.a.31

- **SPED 577 Interagency Collaboration, 2 credits**
Focuses on service coordination that unifies school personnel and community agencies to strategically use collective expertise to plan the transition from school to adult life with students and families for the development and well-being of youth. Strategies for effective leadership and community resource mapping are employed.

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Change to Existing Courses

E.1.a.32

- ED 585 Instructional Planning for Inclusive Classrooms, 4 credits - change course description, change credits from 4 to 3

E.1.a.33

- *SPED 512 Diagnostic Assessment, 3 credits - add 400 level, change course description, change hours from 3 to 3-4

E.1.a.34

- *SPED 521 Behavior Management in the Classroom, 3 credits - change course number to SPED 448/548, change course title to Positive Behavior Support in the Classroom, change course description

E.1.a.35

- *SPED 522 Comprehensive Individualized Assessment and Curriculum I, 3-4 credits - change course description, change credit hours from 3-4 to 3

E.1.a.36

- *SPED 523 Comprehensive Individualized Assessment and Curriculum II, 3-4 credits - change course description, change credits from 3-4 to 3

E.1.a.37

- *SPED 525 Student Teaching, 6-15 credits - add 400-level section

E.1.a.38

- *SPED 526 IEP and Collaborative Teaming (Elementary), 3 credits - change course title to IEP and Collaborative Teaming, change course description, change credits from 3 to 4

E.1.a.39

- *SPED 530 Families and Advocacy (Elementary), 3 credits - change course title to Families and Advocacy, change course description

E.1.a.40

- *SPED 537 Reading Assessment and Instruction (Elementary), 3 credits - change credits from 3 to 3-4

E.1.a.41

- *SPED 538 Reading Assessment and Instruction (Secondary), 3 credits - change credits from 3 to 3-4

Maseeh College of Engineering and Computer Science**New Courses**

E.1.a.42

- CE 596 Theories and Methods of Travel Behavior, 4 credits
Covers the various theoretical perspectives on travel behavior and the methodological approaches used to analyze and understand behavior. Travel behavior includes the study of the set of transportation choices and outcomes, including: vehicle ownership, activity engagement and scheduling, mode choices, destination choices, and routing decisions.
Prerequisite: Graduate standing or consent of instructor.

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E.1.a.43

- CE 598 Travel Survey Methods & Analysis, 4 credits
Focuses on the design, administration, and analysis of various types of surveys used to collect transportation data, including but not limited to household travel surveys, establishment surveys, intercept surveys, and freight/commercial vehicle surveys.
Prerequisite: CE 454 or graduate standing.

E.1.a.44

- CE 696 Theories and Methods of Travel Behavior, 4 credits
Covers the various theoretical perspectives on travel behavior and the methodological approaches used to analyze and understand behavior. Travel behavior includes the study of the set of transportation choices and outcomes, including: vehicle ownership, activity engagement and scheduling, mode choices, destination choices, and routing decisions.
Prerequisite: Graduate standing.

E.1.a.45

- CE 698 Travel Survey Methods & Analysis, 4 credits
Focuses on the design, administration, and analysis of various types of surveys used to collect transportation data, including but not limited to household travel surveys, establishment surveys, intercept surveys, and freight/commercial vehicle surveys.
Prerequisite: Graduate standing.

E.1.a.46

- *CS 588 Cloud and Cluster Data Management, 3 credits
Covers advanced data management solutions emerging for cloud and cluster computing environments, focusing on horizontal and vertical scalable approaches. It covers principles behind data management in these environments, plus specific data management systems that are currently in use or being developed. The topics range from novel data processing paradigms to commercial data management platforms and open-source NoSQL databases. Students will gain broad knowledge about these systems and practical experience with them. Prerequisites: CS 586 or consent of instructor.

E.1.a.47

- ME 546 Scaling and Asymptotic Analysis, 4 credits
Scaling and Asymptotic and/or perturbation methods for the systematic simplification of complex problems in engineering analysis are introduced. The techniques learned will find direct application in system modeling, data reduction, and guidance of complex experimentation and/or testing and 3-D computer model benchmarking. Applied mathematical techniques focus on, but are not at all limited to, thermal-fluids sciences.
Prerequisite: ME 551.

E.1.a.48

- ME 646 Scaling and Asymptotic Analysis, 4 credits
Scaling and Asymptotic and/or perturbation methods for the systematic simplification of complex problems in engineering analysis are introduced. The techniques learned will find direct application in system modeling, data reduction, and guidance of complex experimentation and/or testing and 3-D computer model benchmarking. Applied

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mathematical techniques focus on, but are not at all limited to, thermal-fluids sciences.
Prerequisite: ME 551.

Change to Existing Courses

E.1.a.49

- *CS 565 Server-side Applications: Construction and Analysis, 3 credits - change course title to Full-stack Web Development, change course description

E.1.a.50

- ECE 571 Introduction to System Verilog for Design and Verification, 4 credits - change prereqs

E.1.a.51

- ME 525 Advanced Topics in Building Science, 4 credits - change course description

School of Public Health

Change to Existing Programs

E.1.a.52

- MPH in Health Promotion - change to existing program: reduce internship credits, add two new requirements

E.1.a.53

- MPH in Health Management and Policy - change to existing program: reduce internship credits, add two new requirements

New Courses

E.1.a.54

- HSMP 581 Population Health: Policy and Practice Implications, 3 credits
Introduction to concepts of population health as they relate to policy and practice. In addition to exploring various meanings of the term “population health”, the course considers three primary drivers of population health: long-term demographic trends (e.g., population aging, immigration, fertility); social and economic policies (including health policy); and characteristics of the healthcare system. Special emphasis is placed on translating knowledge into effective policies and practice to address population health.

E.1.a.55

- HSMP 681 Population Health: Policy and Practice Implications, 3 credits
Introduction to concepts of population health as they relate to policy and practice. In addition to exploring various meanings of the term “population health”, the course considers three primary drivers of population health: long-term demographic trends (e.g., population aging, immigration, fertility); social and economic policies (including health policy); and characteristics of the healthcare system. Special emphasis is placed on translating knowledge into effective policies and practice to address population health.

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