

Serial Number #17-18-21A

The attached BILL titled, Curricular Report No. 2017-18-5 from the Graduate Council to the Faculty Senate, was adopted by vote of the Faculty Senate on January 25, 2018.

The Bill is effective on the date of signature below.



Mark Conley
Chairperson of the Faculty Senate

January 25, 2018

Graduate Curriculum Committee Report # 5

December 2017

400 level course changes

College of Environmental and Life Sciences

NRS 402 Old Title: Wildlife Biometrics
New Title: Quantitative Wildlife Ecology

New Description: Overview of statistical design and analysis of ecological field measurements with an emphasis on probabilistic models used in wildlife population research and conservation. Capstone. (Lec. 2, Lab. 3) Prerequisites: BIO 262 or NRS 223, STA 308 or 409, or permission of instructor.

College of Education and Professional Studies

EDC 424 Teach Literacy-Primary Grades

New prerequisites: Elementary education majors: EDC 312 or 512, and 423; Early childhood education majors: HDF 420 or EDC 423; Non-elementary or early childhood education majors; graduate standing or permission of instructor.

College of Engineering

ELE 408 Old title: Computer Organization
New title: Embedded System Design

Change in title.

ELE 409 Old title: Computer Organization Laboratory
New title: Embedded System Design Laboratory

Change in title.

ELE 437/CSC 437 Old title: Computer Communications
New title: Introduction to Computer Networks

Change in title.

MCE/CHE 471 Nuclear Reactor Engineering

Cross list with NUE 471.

Drop MCE 341 and CHE 313 as prerequisite.

MCE/CHE 472 Power Plant System Design and Safety Analysis

Cross list with NUE 472.

MCE/CHE 473 Nuclear Fuel Cycle and Performance

Cross list with NUE 473.

Drop MCE 341 or CHE 313 as prerequisites.

College of Arts and Sciences

LIN 420 Old title: Second Language Acquisition
New title: Second Language Acquisition and Assessment

Cross list with EDC 420

400 level New courses

College of Engineering

ISE 461 G Solar Energy Systems

Description: The study of renewables via solar energy systems. Methods, economic criteria, and background for assessing the systems of solar energy conversion technologies both in local and international settings. Prerequisites: Junior standing, PHY 204, MTH 142, or permission from instructor. (Lec. 3)

500/600 level course changes

College of Environmental and Life Sciences

NRS 532 New Code: BES 532

Old title: Conservation Biology and Resource Economics

New title: Advanced Conservation Biology

Change in credits from 2 to 3.

New prerequisites: Permission of instructor.

College of Education and Professional Studies

EDC 516 Old title: Teaching Dual Language/ English as a Secondary Language New title: Teaching Bilingual and Dual Language/English as a Secondary Language

Change credits from 4 to 3

New description: Methods and materials for those who plan to teach ESL, bilingual, or dual language immersion. Students develop a unit plan demonstrating appropriate teaching and assessment strategies. (Online)

500/600 level course change

College of Engineering

ELE 549 Computer System Modeling

New description and prerequisites: Fundamental understanding of computer systems with limited resources: data centers, fog computing, and networks, internet of things (IoT), etc. Analytical methods to predict the system's performance. Queuing theory, scheduling, and load balance. Prerequisites: ELE 509 or MTH 451 or permission of instructor. (lec. 3)

500/600 level New Courses

College of Arts & Sciences

CSF 591 Directed Study in Cyber Security

Independent study, 1-4 credits.

Description: Advanced work in cyber security conducted as supervised individual projects. (Independent Study)

College of Environmental and Life Sciences

BES 533 Using Multimedia to Communicate Science

Description: An advanced course that provides training to students of the sciences in multimodal—radio, tv, and print – storytelling focusing on science related issues. Prerequisite: Graduate standing or permission of the instructor. (Lec. 3)

BES 593X and 593 Internship in Science Writing

Description: Internship with agency or organization in which student develops and disseminates written pieces on science-related topics to non-scientific audiences. Prerequisites: Previous completion of WRT 533, NRS 543, and permission of instructor. (Practicum, 3)