

# Graduate Curriculum Committee Report # 5

## December 2017

### 400 level course changes for graduate credit

#### 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 for graduate credit**

### **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)

### **Notice of Change**

#### **School of Education: (see Appendix A)**

Title change: “Teaching English to Speakers of Other Languages and Bilingual and Dual Language Immersion (TESOL/BDL)”