



To: Members of the 2018-2019 Graduate Council

From: Nasser Zawia, Dean
Andrea Rusnock, Associate Dean

Date: 28 January 2019

RE: Agenda for Meeting Number 520 of the Graduate Council to be held on
Monday, 28 January 2019 at 2:00 p.m. in the Alumni Center Boardroom

I. Call to order

II. Approval of Minutes of Meeting Number 519, 10 December 2018 (please see attachments)

III. Announcements

- A. **GS Fellowships, Scholarships, and Diversity Awards**
- B. **ABD policy**
- C. **GTA allocation**
- D. **Professional Development upcoming events**
- E. **Recent appointments to the Graduate Faculty since those listed on the agenda for 10 December 2018 meeting**

Eric Kaldor	Education	12/3/2018
Carl Saab	Interdisciplinary Neuroscience	1/10/2019
Suchandra Basu	ENRE	1/18/2019
Saleh Allababidi	BPS	1/23/2019
Julien Bonnel	Ocean Engineering	1/24/2019

IV. New Programs

- A. **New MESM track: Environmental Communication**

IV. Graduate Curriculum (See Google Drive for Course forms)

400 level course changes:

College of Arts and Sciences

Computer Science and Statistics

CSC 411 Computer Organization

Change in prerequisite to: "CSC 212 and student must be admitted to a degree-granting college."

CSC 412 Operating Systems and Networks

Change in prerequisite to: "CSC 212 and student must be admitted to a degree-granting college."

CSC 415 Introduction to Parallel Computing

Change in prerequisite to: "CSC 411 or ELE 305, and student must be admitted to a degree-granting college. In alternate years."

CSC 436 Database Management Systems

Change in prerequisite to: "CSC 212 and student must be admitted to a degree-granting college."

CSC 440 Design and Analysis of Algorithms

Change in prerequisite to: "CSC 212 and (CSC 340 or MTH/CSC 447) and student must be admitted to a degree-granting college."

CSC 445 Models of Computation

Change in prerequisite to: "CSC 340 or CSC/MTH447 and student must be admitted to a degree-granting college. In alternate years."

CSC/CSF 462 Secure Programming

Change in prerequisite to: "CSC 305"

CSC 481 Artificial Intelligence

Change in prerequisite to: "CSC 212 and student must be admitted to a degree-granting college."

Philosophy

PHL 451 Symbolic Logic

Cross list with CSC 451

Change in prerequisite to: "Any one of the PHL 101 CSC 340, CSC/MTH 447, or MTH 180, or permission of instructor"

400-level New Course:

NRS 442 Environmental Crisis Communication

Course description: "Effective communication requires strategy, clarity, and an audience-centric approach. Using case studies, this course will explore crisis communication theory and practice through the lens of recent environmental disasters. (Lec. 3)"

500-level course changes:

College of Arts & Sciences Computer Science and Statistics

CSC 550 Computer Algebra

Change in prerequisite to: "CSC 440. In alternate years."

College of Environmental and Life Sciences Geosciences

GEO 562 Aqueous Geochemistry

New title: Biogeochemical Cycles

New Description: "Introduction to processes controlling water chemistry in low-temperature environments in the context of global biogeochemical cycles, including weathering, ion exchange, acid-bas chemistry, redox, mineral equilibria, isotopes, and modeling."

College of Engineering Chemical Engineering

CHE 570 Research Methods in Chemical Engineering

Cross list with EGR 570

Change title to "Research Methods in Engineering"

New Description: "Provide experience, practice, and knowledge in engineering research methodology, including defining a research problem, writing a research paper, giving presentations, finding relevant literature, applying scientific knowledge in practice, ethics, professionalism."

College of Health Sciences Human Development and Family Studies

HDF 565 Family Therapy Practicum

New description, method of instruction, and prerequisites:

"Preparation for and practice of couple and family therapy. Live supervision, student-presented case material, and review of recordings of actual counseling sessions.

Prerequisite: Admission to CFT program or permission of instructor. May be repeated for a maximum of 18 credits. (Practicum 3)"

500-level New Course Proposal

College of Arts and Sciences Library and Information Sciences

LSC 536 Media Smart Libraries

Course description: Students explore current trends in digital, media, and other literacies to learn how libraries can provide learning opportunities to advance the knowledge and competencies of users of all ages. (Online 3)

College of Environmental and Life Sciences

Cell and Molecular Biology

CMB 502X Introduction to Cytopathology

Course description: “Cellular pathology analysis as a diagnostic tool in medicine. Learn to identify STDs, inflammation, neoplasia and causes of disease, classification and treatment. Morphological changes of cancer cells are discussed. Prerequisite: Junior, senior, or graduate standing or instructor permission (Lec. 3).”

Marine Affairs

MAF 531 Environmental Justice

Course description: “Exploration of how race, class, gender, nationality, and ethnicity shape environmental inequalities. Topics include occupational health hazards, environmental social movements, public health concerns, and contested use of natural resources. Prerequisite: Graduate standing or instructor permission (Seminar 3)”

College of Business

MAC 511 Data Analytics for Accounting

Course description: “Introduces data analytics process and various applications of data analytics in accounting. Emphasis on hands-on learning experience on varied analytical tools using real-world data. Prerequisite: Graduate standing in accounting or permission of MS. in accounting director. (Online 3)”

College of Engineering

Electrical, Computer, and Biomedical Engineering

ELE 588 Optimization for Machine Learning Applications

Course description: “Introducing advances in optimization theory and algorithms for rapidly growing applications in machine learning such as linear regression, support vector machines, deep learning, and reinforcement learning. Prerequisite: Graduate standing, a thorough understanding of calculus, linear algebra, probability, and knowledge of computer programming, or permission of instructor (Lec. 4)”

Feinstein College of Education and Professional Studies

School of Education

EDC 526 Applied Linguistics for TESOL/BDL

Course description: “EDC 526 provides opportunities for teachers of English Learners to develop their understanding of the English language system (phonology, morphology, syntax, semantics, orthography, spelling, and pragmatics), and how differences between English and other languages affect L2 language acquisition, literacy, and metalinguistic

awareness. Prerequisite: Acceptance into a Master's program in the School of Education or permission of instructor. (Online 3)."

EDC 560 Advanced Qualitative Research Procedures

Course description: "This advanced methods course focuses on key elements of qualitative research procedure with a particular emphasis on honing data collection and analysis skills. Prerequisite: EDP 612 or permission of instructor. (Lec. 2, Sem. 1)"

College of Pharmacy

PHC/CHE/OCG 579 Special Topics on Emerging Contaminants

Course description: "Introduction to emerging contaminants such as PFASs, focusing on their chemistry, detection, epidemiology, human health, metabolism, and remediation, as well as interdisciplinary collaboration, research translation, community engagement, and professional development. Prerequisite: Graduate standing (Lec. 2)"

College of Health Sciences

CHS 601 Seminar in Health Sciences

Course description: "Reports and discussions of current topics in health sciences, as well as oral reports of dissertation research topics in progress. May be repeated for a maximum of 3 credits. Prerequisites: Enrolled in the PhD in Health Sciences program or permission of instructor. (Sem. 1)"

CHS 610 Grant Writing and Research Dissemination

Course description: "This course focuses on developing effective grant writing skills, the ability to identify grant opportunities related to health sciences, and the process of disseminating research outcomes. Prerequisites: Enrolled in the PhD in Health Sciences program or permission of instructor. (Lec. 3)"

PHT 691 Research in Physical Therapy

Course description: "Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study, 1-3 credits) May be repeated for up to 6 credits. Prerequisite: Enrollment in the Doctoral Program in Health Sciences."

KIN 691 Research in Kinesiology

Course description: "Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study, 1-3 credits) May be repeated for up to 6 credits. Prerequisite: Enrollment in the Doctoral Program in Health Sciences."

HLT 691 Research in Health Studies

Course description: "Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study, 1-3 credits)

May be repeated for up to 6 credits. Prerequisite: Enrollment in the Doctoral Program in Health Sciences.”

HDF 691 Research in Human Development & Family Studies

Course description: “Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study, 1-3 credits) May be repeated for up to 6 credits. Prerequisite: Enrollment in the Doctoral Program in Health Sciences.”

CMD 691 Research in Communicative Disorders

Course description: “Assigned research on an advanced level. Students are required to outline the problem, conduct the necessary literature survey and experimental work, and present their observations and conclusions in a report. (Independent Study, 1-3 credits) May be repeated for up to 6 credits. Prerequisite: Enrollment in the Doctoral Program in Health Sciences.”

PHT 699 Doctoral Dissertation Research

Course Description: “(1-12 credits) Number of credits is determined each semester in consultation with the major professor or program committee. (Independent Study). S/U credit. Prerequisite: Enrollment in the Doctoral Program in Health Sciences.”

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Notice of Change

College of Engineering

Department of Electrical, Computer, and Biomedical Engineering

Change in requirements for Electrical Engineering graduate program:

1. All full time MS and PhD students must enroll in ELE 601 Graduate Seminar every semester that it is offered.
2. Eliminate “significant independent research “ course and “substantial paper” requirements for non-thesis MS students who take the comprehensive examinations.

V. New Business

A. Report of the Ad hoc Fellowship Committee

VII. Adjournment