



# The Graduate School

UNIVERSITY OF SOUTH CAROLINA

## GRADUATE COUNCIL AGENDA December 10, 2012

**To:** Graduate Council

Dr. Joseph Quattro, Chair; Drs., Subra Bulusu, Wayne Carver, Erik Drasgow, Minuette Floyd, Stacy Fritz, Edward Gatzke, Michael Hodgson, J. Daniel Jenkins, Kartik Kalaignanam, DeAnne Messias, Murray Mitchell, Lauren Sklaroff, Paul Solomon, Tracey Weldon-Stewart, Ercan Turk, Adela Vraciu, Lee Walker, Terrance Weik; John Knox, GSA Representative

**CC:** President Harris Pastides, Provost Michael Amiridis, Dr. Kristia Finnigan, Deans, Department Chairs, Graduate Directors, and graduate Program Administrators

**From:** Dr. Lacy Ford, Vice Provost and Dean of Graduate Studies

The Graduate Council will meet on Monday, December 10, 2012 at 2:00 PM in Room 311 Byrnes. The following items will be on the agenda:

1. **Call to Order and Approval of Agenda** (Joseph Quattro)
2. **Approval of minutes** ([Minutes of November 26, 2012](#)) Approved actions by Graduate Council become effective 30 days after posting [Copy on file at The Graduate School; also posted on The Graduate School website at:  
  
<http://app.gradschool.sc.edu/gradcouncil/minutes.asp>
3. **Report of the Chair** (Joseph Quattro)
4. **Report of the Dean of Graduate Studies** (Lacy Ford)
5. **Report of the Secretary of the Graduate Council / Associate Dean** (Murray Mitchell)
6. **Report of the Graduate Student Association Representative** (John Knox)
7. **Report of the Academic Policy and Practices Committee** (Paul Solomon)
8. **Report of the 500/600 Level Courses, Distance Education and Special Courses** (Murray Mitchell)

**DED and Special Topics Course Approvals:**

**Social Work**

[SOWK J 768 I International Social Work and Social Justice Issues](#) (3)

[Effective Term: Spring 2013]

[SOWK J 768 C Crisis Intervention](#) (3)

[Effective Term: Spring 2013]

**DED Approvals:**

**HRSM**

[ITEC J 747 Management of Health Information Systems](#) (3)

[Effective Term: Spring 2013]

[ITEC J 770 Health IT Database Systems](#) (3)

[Effective Term: Spring 2013]

9. **Fellowships and Scholarships Committee** (Wayne Carver)

10. **Report of Science, Math, and Related Professional Programs Committee** (Ed Gatzke)

**ARNOLD SCHOOL OF PUBLIC HEALTH**

***Health Services Policy and Management***

Course Change Proposal/Bulletin Change:

[HSPM 708 Cost Benefit Analysis in Health](#)

Change Course Prerequisites to "NONE".

Change Course Description

This is an introductory course on economic evaluation: analysis of costs, effectiveness and benefits of health interventions. The focus is on applications of economic principles to real-world health policy issues and problems. This course will introduce the conceptual foundations and practical skills needed for conducting economic evaluations in the health sector.

No prerequisites required.

[Effective Term: Spring 2013]

**SCHOOL OF MEDICINE**

***Biomedical Sciences***

Bulletin Change:

[Biomedical Sciences Certificate Program](#)

The Biomedical Sciences Certificate Program was created as a post-baccalaureate program to assist students in their efforts to become more competitive for professional (typically medical or dental) schools. Students in this program take rigorous graduate level courses in the biomedical sciences to demonstrate their ability to handle this level of coursework.

We are requesting a change in the required core courses that will be taken by students in this program. The revised core courses already exist, and in the opinion of our graduate curriculum committee, are more relevant to the preparation of students for medical and dental school. The requested change will reduce the number of credits taken in the required core curriculum from 18 to 12. This will allow some flexibility in the program for students to select elective(s) relevant to their specific area of interest.

### **Current Bulletin**

Degree Requirements (18 Hours)

Required Courses Include:

- [PHPH 701 - Physiology for Health Sciences](#)
- [PHPH 705 - Biomedical Pharmacology](#)
- [CHEM 751 - Biosynthesis of Macromolecules](#)
- [CHEM 753 - Enzymology and Protein Chemistry](#)

Elective Courses Include

One 3 credit course per semester.

- [PHPH 750 - Fundamental Neuroscience I](#)
- [CHEM 752 - Regulation and Integration of Metabolism](#)
- [BMSC 705 - Medical Cell Biology II](#)

### **Proposed New Bulletin**

Required Courses Include:

- [BMSC 707 - Biochemistry for Biomedical Sciences](#)
- [BMSC 708 - Human Cell and Molecular Biology](#)
- [MCBA 710 - Topics in Gross Anatomy](#)
- [PHPH 701 - Physiology for Health Sciences](#)

Elective Courses Include, but are not limited to:

- [PHPH 750 - Fundamental Neuroscience I](#)
- [CHEM 752 - Regulation and Integration of Metabolism](#)
- [BMSC 705 - Medical Cell Biology II](#)

[Effective Term: Spring 2013]

**SCHOOL OF COMPUTING AND ENGINEERING**  
***Electrical Engineering***

Bulletin Change:  
[Electrical Engineering, Ph.D.](#)

**Current Bulletin:**

The general requirements for the Ph.D. degree are equivalent to those of The Graduate School. The course work requirement is established by the student's committee, but a minimum of 60 hours (48 hours of course work and 12 of dissertation preparation) beyond the B.S. degree is required. The program of study has to be defined with the agreement of the student's committee. Changes in the program of study are only allowed with the permission of the advisor and the graduate director. The changes have to be made at least one semester before the expected completion of the new program of study.

**Degree Requirements (60 Post Baccalaureate Hours)**

9 hours of elective coursework to be taken with proper advisement.

Ph.D. students performing research in the area of signal integrity are also required to complete 3 credit hours of:

**[ELCT 897 - Directed Individual Study](#)**

In the preparation of the program of study, the following requirements also have to be considered:

A minimum of 15 credit hours must be completed in the research field. A maximum of 12 hours of [ELCT 797 - Research](#) may be counted toward the Ph.D. degree.

Half of all credit hours, not including the dissertation preparation (ELCT 899) must be at the 700 level or above.

As a guideline, a typical program of study for the Ph.D. is:

Hours in the research field: 15 hours  
Hours outside the department: 6 hours  
Elective hours with advisement: 9 hours

**Dissertation Preparation (12 Hours)****[ELCT 899 - Dissertation Preparation](#)**

Hours in the research field (15 Hours)

Hours outside the department (6 Hours)

Research (12 Hours)

**[ELCT 797 - Research](#)**

Directed Individual Study (6 Hours)

**[ELCT 897 - Directed Individual Study](#)**

## Additional Requirements

Students entering the Ph.D. program are required to pass a qualifying examination within 1.5 calendar years of initial enrollment in the program. The exam will be administered through oral questioning of the students by a group of professors. Questions will be based on the major areas of Electrical Engineering (i.e., Circuits & Electronics, Signals & System and Controls, Electromagnetics, and Semiconductor Devices). Details of the exam format and contents will be sent out to the concerned students well in advance of the exam. Students are allowed to take the qualifying exam only twice. For more information on the Qualifying exam, please visit <http://www.ee.sc.edu/Grad/NewPhDQualifyingExam.pdf>.

Before Ph.D. students can apply for graduation, they need to stay as “Ph.D. candidates” for at least one year. To become Ph.D. candidates, apart from passing the qualifying exam, they also need to have an approved Program of Study in their file with the Graduate School. All Ph.D. students are also required to present a dissertation proposal and a comprehensive exam preferably within three calendar years of initial enrollment in the program. The comprehensive examination, which can be in written or oral format, or a combination of both, will focus on their specific research area, and be administered by their committee. The students must pass the comprehensive exam at least 3 months before they can apply for graduation.

### **Proposed New Bulletin:** Electrical Engineering, Ph.D.

The general requirements for the Ph.D. degree in Electrical Engineering are equivalent to those of The Graduate School.

## Coursework Requirements

Students entering the Ph.D. program with a B.S. degree are required to complete a minimum of 48 hours of course work and 12 hours of dissertation preparation. At least 24 hours of coursework must be the level of 700 or above.

Students entering into the Ph.D. program with an approved M.S. or M.E. degree are required to complete 18 hours of course work and 12 hours of dissertation preparation. At least nine hours of coursework must be at the level of 700 or above.

The Program of Study (POS) must be defined in consultation with the student's advisor and approved by the Graduate Director. Changes in the POS require permission of the student's advisor and approval of the Graduate Director. Any such changes must be approved before the beginning of a student's final semester.

Not more than 12 hours of ELCT 797 (Research) and not more

than six hours of ELCT 897 (Directed Individual Study) may be approved. Ph.D. students conducting research in the area of Signal Integrity are required to complete three credit hours of ELCT 897.

#### Additional Requirements

Ph.D. Students must take and pass an oral Qualifying Examination within three academic semesters of initial enrollment in the program. The exam will be administered by a departmental committee for the purpose of ascertaining that the student has mastered the essentials of electrical engineering including the following major areas: Circuits and Electronics, Signals and Systems, Controls, Electromagnetics, and Semiconductor Devices. Details of the exam format and contents will be made available to the concerned students well in advance of the exam. Students are allowed to take the qualifying exam not more than twice.

Students must be admitted to Ph.D. Candidacy at least one year before graduation. Admission to candidacy requires passing the qualifying Exam and filing an approved Program of Study. Each Ph.D. student must write and present a dissertation proposal and have it approved by his/her advisory committee, which constitutes the Comprehensive Exam. The dissertation proposal and its presentation must delineate the scope and depth of the original research that the student proposes to undertake.

[Effective Term: Fall 2013]

**11. Report of the Humanities, Social Sciences, Education, and Related Professional Programs Committee (J. Daniel Jenkins)**

No Report

**12. Report of the Petitions and Appeals Committee (Erik Drasgow)**

**13. Other Committee Reports**

**14. Old Business**

**15. New Business**

**16. Good of the Order**

**17. Adjournment**