The Graduate School
UNIVERSITY OF SOUTH CAROLINA

GRADUATE COUNCIL AGENDA
February 25, 2013

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 (Substituting for David Darmofal), 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, February 25, 2013 at 2:00 PM in the Byrnes Building, Room 311 with the following items on the agenda:

1. **Call to Order and Approval of Agenda** (Joseph Quattro)

2. **Approval of minutes** (Minutes of the January 28, 2013 meeting) Approved actions by Graduate Council become effective 30 days after posting. A copy is available 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)

   Distance Education Delivery and Special Topics Course
   SLIS J 797 'Tweens, Teens and Technology (3)

   Schedule Exception Request, Off-Campus Delivery Approval and Special Topics Course Approval
   JOUR 790 E Mgt Funct Engr Comm (3)

   New Course Proposal and Distance Education Delivery
   STAT 600

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

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

   COLLEGE OF ARTS AND SCIENCES

   College of Engineering and Computing

   New Course Proposal/Distance Education Delivery
   EMCH 770 Predictive Modeling: Combining Experiments with Computations

   Experimental and computational uncertainties; combining experiments with computations to obtain "best-estimate" results with reduced uncertainties; predictive modeling.

   This course will serve as an elective in the graduate nuclear engineering program, but the topics addressed would be of interest to any engineering and/or science application field that involves combination of experimental and computational information (including all uncertainties) in order to obtain optimally predicted results with reduced uncertainties.

[Effective Term: Fall 2013]

   College of Nursing

   Bulletin Change
   NURS Doctor of Nursing Practice

   The GRE was eliminated from the DNP program admissions criterion back in spring 2011. Task force members Dr. Joan Culley, Dr. Laura Hein, Dr. Kathleen Scharer and Dr. Abbas Tavakoli were charged with finding an alternative. It was recommended to pilot the new criteria and to evaluate the new criteria once implemented. The following recommendations were made to replace the GRE as admission criteria:

   - Grade Point average Criteria (50%) - The GPA could be either from undergraduate

coursework if the prospective student lacks a graduate degree. If the prospective student has an MSN degree or has completed an MSN project, then extra credit will be given. See Attached.

- Letter of Reference (20%) - Please evaluate the applicant by selecting the ranking that corresponds to the characteristic. See Attached.

- Interview with Writing Sample (30%) - In addition to the interview, a writing sample is being piloted. See Attached.

Current Bulletin:

Admission requirements for students with a B.S.N. or a master's degree in nursing:
1. A B.S.N. or master's degree in nursing from a program that is nationally accredited;

2. General GRE verbal and quantitative scores (The mean GRE score for recently admitted students was 450 verbal and 541 quantitative.);

3. Current authorization to practice as SC Registered Nurse or possession of an unencumbered license in the state in which clinical practice will occur;

4. Transcripts of all previous college studies (The mean GPA for recently admitted students was 3.57.);

5. Completed application to The Graduate School with the College of Nursing supplement;

6. Three references written by doctorally prepared nurses who are able to evaluate the academic potential of the candidate;

7. An admission interview;

8. Evidence of writing competence, which will be evaluated through the candidate's prepared written statement submitted with the application, as well as by written response to an essay question given during the admissions interview;

9. Applicants with a master's degree in nursing must be certified as an advanced practice nurse or hold a master's degree in nursing administration;

10. Applicants with a master's degree in nursing must present a professional portfolio of knowledge, skills, and expertise acquired through education and experience to include documentation of RN licensure or unencumbered license in the state in which clinical practice will occur, documentation of advance practice certification, and an official letter from master's program documenting number of clinical hours completed.

Proposed Bulletin:

Admission requirements for students with a B.S.N. or a master's degree in nursing:

1. A B.S.N. or master's degree in nursing from a program that is nationally accredited;

2. Current authorization to practice as a SC Registered Nurse or possession of an unencumbered license in the state in which clinical practice will occur;

3. Transcripts of all previous college studies. Grade point average criteria (50% weighted). (The mean GPA for recently admitted students was 3.57);

4. Completed application to The Graduate School with the College of Nursing supplement;

6. An admission interview with writing sample (30% weighted);

5. Three references written by doctorally prepared nurses who are able to evaluate the academic potential of the candidate; Letters of reference (20% weighted);

7. Evidence of writing competence, which will be evaluated through the candidate's prepared written statement submitted with the application, as well as by written response to an essay question given during the admissions interview.

8. Applicants with a master's degree in nursing must be certified as an advanced practice nurse or hold a master's degree in nursing administration;

9. Applicants with a master's degree in nursing must present a professional portfolio of knowledge, skills, and expertise acquired through education and experience to include documentation of RN licensure or unencumbered license in the state in which clinical practice will occur, documentation of advance practice certification, and an official letter from master's program documenting number of clinical hours completed.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 703 Electromagnetic Theory I

Changes to course title and description

The proposed changes of the courses PHYS 703 and PHYS 704 are changes in the course names and minor changes in the course description to allow instructors to emphasize different aspects of classical fields. The electromagnetic field is an important but not the only example of a classical field.

[Effective Term: Fall 2013]

Bulletin Change
PHYS 704 Electromagnetic Theory II

Change course title

The proposed changes of the courses PHYS 703 and PHYS 704 are changes in the course names and minor changes in the course description to allow instructors to emphasize different aspects of classical fields. The electromagnetic field is an important but not the only example of a classical field.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 708 General Relativity

Changes to course title and prerequisites/corequisites

Cosmology has always been an important topic in the course PHYS 708. The proposed change in the course name reflects this. The inclusion of prerequisites helps students to gage their readiness for this course.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 713 Advanced Quantum Theory I

Changes to course title, description and prerequisites/corequisites

The proposed theoretical-physics courses PHYS 713, "Advanced Quantum Theory", PHYS 714, "Quantum Field Theory", and PHYS 715, "Many-Body Quantum Theory" replace the previous courses PHYS 713/714, "Advanced Quantum Theory I/II", PHYS 717, and in parts "Nuclear Theory", and PHYS 728, "Solid State Theory". The new sequence of three courses is structured more clearly and covers fundamental concepts in theoretical physics that are applicable to a broad range of fields; e.g. nuclear, particle, and condensed-matter physics. The smaller number of courses allows the courses to be offered more frequently. The old and the new sequence have a very large overlap in the covered material. Specialty topics are deferred to the topical courses.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 714 Advanced Quantum Theory II

Changes to course title, description and prerequisites/corequisites

The proposed theoretical-physics courses PHYS 713, "Advanced Quantum Theory", PHYS 714, "Quantum Field Theory", and PHYS 715, "Many-Body Quantum Theory" replace the previous courses PHYS 713/714, "Advanced Quantum Theory I/II", PHYS 717, and in parts "Nuclear Theory", and PHYS 728, "Solid State Theory". The new sequence of three courses is structured more clearly and covers fundamental concepts in theoretical physics that are applicable to a broad range of fields; e.g.

nuclear, particle, and condensed-matter physics. The smaller number of courses allows the courses to be offered more frequently. The old and the new sequence have a very large overlap in the covered material. Specialty topics are deferred to the topical courses.

[Effective Term: Fall 2013]

New Course Proposal
PHYS 715 Many-Body Quantum Theory

The proposed theoretical-physics courses PHYS 713, "Advanced Quantum Theory", PHYS 714, "Quantum Field Theory", and PHYS 715, "Many-Body Quantum Theory" replace the previous courses PHYS 713/714, "Advanced Quantum Theory I/II", PHYS 717, and in parts "Nuclear Theory", and PHYS 728, "Solid State Theory". The new sequence of three courses is structured more clearly and covers fundamental concepts in theoretical physics that are applicable to a broad range of fields; e.g. nuclear, particle, and condensed-matter physics. The smaller number of courses allows the courses to be offered more frequently. The old and the new sequence have a very large overlap in the covered material. Specialty topics are deferred to the topical courses.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 717 Nuclear Theory I

Delete course

The proposed theoretical-physics courses PHYS 713, "Advanced Quantum Theory", PHYS 714, "Quantum Field Theory", and PHYS 715, "Many-Body Quantum Theory" replace the previous courses PHYS 713/714, "Advanced Quantum Theory I/II", PHYS 717, and in parts "Nuclear Theory", and PHYS 728, "Solid State Theory". The new sequence of three courses is structured more clearly and covers fundamental concepts in theoretical physics that are applicable to a broad range of fields; e.g. nuclear, particle, and condensed-matter physics. The smaller number of courses allows the courses to be offered more frequently. The old and the new sequence have a very large overlap in the covered material. Specialty topics are deferred to the topical courses.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 721 Nuclear Physics

Changes to course title, description, and prerequisites/corequisites.

The proposed three courses in subatomic physics, PHYS (new) 721, "Subatomic Physics", PHYS (new) 722, "Advanced Nuclear Physics", PHYS (new) 723, "Advanced Particle Physics" replace the previous courses PHYS 721, "Nuclear Physics", PHYS 723, "Elementary Particles I", PHYS 724, "Elementary Particles II",

and to some extent, PHYS 717, "Nuclear Theory I" (other parts of PHYS 717 are now covered by the proposed "Many-Body Quantum Theory" course, PHYS (new) 715.) Nuclear and particle physics have a large overlap in concepts and methods. The new course sequence reflects that fact in offering an introductory course, PHYS (new) 721, followed by the two courses in nuclear and particle physics. The improved focus and the smaller total number of courses allow more students to take all these courses, regardless of their field of specialty.

[Effective Term: Fall 2013]

New Course Proposal
PHYS 722 Advanced Nuclear Physics

Nuclear and hadronic structures and reactions.

The proposed theoretical-physics courses PHYS 713, "Advanced Quantum Theory", PHYS 714, "Quantum Field Theory", and PHYS 715, "Many-Body Quantum Theory" replace the previous courses PHYS 713/714, "Advanced Quantum Theory I/II", PHYS 717, and in parts "Nuclear Theory", and PHYS 728, "Solid State Theory". The new sequence of three courses is structured more clearly and covers fundamental concepts in theoretical physics that are applicable to a broad range of fields; e.g. nuclear, particle, and condensed-matter physics. The smaller number of courses allows the courses to be offered more frequently. The old and the new sequence have a very large overlap in the covered material. Specialty topics are deferred to the topical courses.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 723 Elementary Particles I

Changes to course title, description, and prerequisites/corequisites

The proposed three courses in subatomic physics, PHYS (new) 721, "Subatomic Physics", PHYS (new) 722, "Advanced Nuclear Physics", PHYS (new) 723, "Advanced Particle Physics" replace the previous courses PHYS 721, "Nuclear Physics", PHYS 723, "Elementary Particles I", PHYS 724, "Elementary Particles II", and to some extent, PHYS 717, "Nuclear Theory I" (other parts of PHYS 717 are now covered by the proposed "Many-Body Quantum Theory" course, PHYS (new) 715.) Nuclear and particle physics have a large overlap in concepts and methods. The new course sequence reflects that fact in offering an introductory course, PHYS (new) 721, followed by the two courses in nuclear and particle physics. The improved focus and the smaller total number of courses allow more students to take all these courses, regardless of their field of specialty.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 724 Elementary Particles II

Delete Course

The proposed three courses in subatomic physics, PHYS (new) 721, "Subatomic Physics", PHYS (new) 722, "Advanced Nuclear Physics", PHYS (new) 723, "Advanced Particle Physics" replace the previous courses PHYS 721, "Nuclear Physics", PHYS 723, "Elementary Particles I", PHYS 724, "Elementary Particles II", and to some extent, PHYS 717, "Nuclear Theory I" (other parts of PHYS 717 are now covered by the proposed "Many-Body Quantum Theory" course, PHYS (new) 715.) Nuclear and particle physics have a large overlap in concepts and methods. The new course sequence reflects that fact in offering an introductory course, PHYS (new) 721, followed by the two courses in nuclear and particle physics. The improved focus and the smaller total number of courses allow more students to take all these courses, regardless of their field of specialty.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 725 Solid State Physics

Changes to the course title, description, and prerequisites/corequisites.

The proposed two courses in condensed-matter physics, PHYS (new) 725 and PHYS (new) 726, replace the previous courses PHYS 725, "Solid State Physics", PHYS 726 "Superconductivity", and in parts PHYS 728, "Solid State Theory" (other parts of PHYS 728 are now covered by the proposed "Many-Body Quantum Theory" course, PHYS 715.) The improved focus and the smaller total number of courses allow more students to take all these courses, regardless of their field of specialty.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 726 Superconductivity

Changes to the course title, description, and prerequisites/corequisites.

The proposed two courses in condensed-matter physics, PHYS (new) 725 and PHYS (new) 726, replace the previous courses PHYS 725, "Solid State Physics", PHYS 726 "Superconductivity", and in parts PHYS 728, "Solid State Theory" (other parts of PHYS 728 are now covered by the proposed "Many-Body Quantum Theory" course, PHYS 715.) The improved focus and the smaller total number of courses allow more students to take all these courses, regardless of their field of specialty.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 727 Magnetic Resonance

Delete course.

PHYS 727 is a very specialized course. The topic of this course is no longer covered by any active research area in the Department and the course has not been offered in a long time. In the future, the material of the course can be offered in a topical course.

[Effective Term: Fall 2013]

Course Change Proposal
PHYS 728 Solid State Theory

Delete Course.

The proposed theoretical-physics courses PHYS 713, "Advanced Quantum Theory", PHYS 714, "Quantum Field Theory", and PHYS 715, "Many-Body Quantum Theory" replace the previous courses PHYS 713/714, "Advanced Quantum Theory I/II", PHYS 717, and in parts "Nuclear Theory", and PHYS 728, "Solid State Theory". The new sequence of three courses is structured more clearly and covers fundamental concepts in theoretical physics that are applicable to a broad range of fields; e.g. nuclear, particle, and condensed-matter physics. The smaller number of courses allows the courses to be offered more frequently. The old and the new sequence have a very large overlap in the covered material. Specialty topics are deferred to the topical courses.

[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**