UNC CHARLOTTE

Office of Academic Affairs

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TO: Faculty Council Members

FROM: Sonya Hardin, Faculty President

DATE: January 9, 2009

RE: Consent Calendar

Attached is the Consent Calendar (See Article V, Section 3.A (3 & 4), J. (3 & 5) and K.3 of the Standing Rules of the Faculty Council.) consisting of these proposals:

- EDLD 08-30-08 Establish RSCH 8150: Structural Equation Modeling
- REEL 2-04-08 Establish an Elementary Education Specialization in the Curriculum and Instruction Ph.D. Program
- PHYS 8-1-08 Establish PHYS 6203: Methods of Molecular Modeling and Simulation in Physics
- PHYS 5-9-08 Establish PHYS 6202/OPTI 6202/ OPTI 8202: Fundamentals of Biomedical Optics
- 12-10-07d Establish COMM 6102: Professional Seminar in Communication
- 12-10-07c Establish COMM 6103: Communication Ethics
- 12-10-07b Establish COMM 6011: Topics in Communication Research Methods
- 12-10-07a Revise Core Curriculum in Communication Studies M.A. Program
- 12-10-07c Establish COMM 6880: Independent Study
- 10-29-06b Establish COMM 5115: Seminar in Health Communication

Below are the catalog copy descriptions. If you wish to read the full proposals, they are posted on the Academic Affairs website.

If there is an objection regarding this proposal, it must be registered with the Faculty Governance Secretary (Julie Putnam, ext. 5719) by **5 PM on January 23, 2009**. If no objections are registered, they will stand approved.

Catalog Copy:

Establish RSCH 8150: Structural Equation Modeling

RSCH 8150. Structural Equation Modeling. (3)
Prerequisite: RSCH 8110, 8120 or equivalent. This course is designed to apply general statistical modeling techniques to establish relationships among variables. Topics include regression models, path analysis models, exploratory and confirmatory factor analyses, latent variables, basic steps in structural equation modeling, multiple indicators and multiple causes (MIMIC) model, multi-group model, multilevel model, mixture model, structured mean model, second order factor model, latent variable growth model, and dynamic factor model. The course will be offered once a year

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Establish an Elementary Education Specialization in the Curriculum and Instruction Ph.D. Program

Summary. The Department of Reading and Elementary Education (REEL) proposes to add an Elementary Education specialization to the existing Ph.D. program in Curriculum and Instruction. This would add a fourth specialization to the three current specializations of Literacy Education, Mathematics Education, and Urban Education.

Proposed Catalog Copy.

EDCI 8152. Varieties of Constructivism in Elementary Education. (3G) Examines Piaget's constructivism and various strands of constructivism that have arisen in the latter half of the 20th century. (*Alternate years*)

EDCI 8153. Pro-seminar in Elementary Education. (3G) Introduces candidates to elementary education faculty and their research programs to allow doctoral students to connect early in their program with faculty who will chair or serve on their committees. (*Fall*)

EDCI 8154. History of Education in America. (3G) In-depth study of the philosophic and historical events influencing the development of the contemporary school. Literature related to trends in curriculum, instruction, social justice, and school configuration will be emphasized. (*Spring*)

EDCI 8155. Using Process and Outcome Data to Drive Continuous School Improvement. (3G) Prerequisite: RSCH 8110. Consideration and study of how successful elementary schools collect and use data to drive their reform activities, with a focus on providing culturally and individually responsive instructional programs. (*Alternate Years*)

EDCI 8156. Critical Issues in Elementary School Professional Development and Teacher Learning. (3G) Foundations of professional development, opportunities for teacher learning to improve practices in curriculum development, instructional leadership, and classroom management, and an understanding of the influence of socially responsive professional development in urban elementary schools. (*Alternate Years*)

EDCI 8157. Analysis of Inquiry Teaching and Learning in Elementary Schools. (3G) Prerequisite: RSCH 8111. Focus on topics associated with inquiry teaching and learning in an elementary school setting including historical background; underlying theoretical and philosophical frameworks; models of inquiry instruction; and curricular implications. (*Alternate Years*)

EDCI 8650. Critical Readings in Elementary Education Research (3G) Critical review, analysis, and synthesis of current and historical literature having special significance for elementary education, with specific focus on research related to educational theory and practice and their implications for teaching at the elementary level. (*Alternate Years)*

EDCI 8850. Independent Study in Elementary Education. (3G) Prerequisite: Permission of the student's advisor. Independent study of an elementary education problem or issue under the supervision of an appropriate faculty member. May be repeated for credit. (*On demand*)

Establish PHYS 6203: Methods of Molecular Modeling and Simulation in Physics

PHYS 6203. Methods of Molecular Modeling and Simulation in Physics. (3) Prerequisite: Permission of the instructor. Numerical methods. Atomic models of soft-matter systems: liquids, polymers, and biomolecules. Molecular dynamics and Monte Carlo methods. Inter-particle potentials. Methods of efficient conformational sampling. Free energy calculations. Introduction to fundamental methods of molecular simulations designed to characterize and predict properties of microscopic systems in materials, physics, and biology. Classical simulations and their connection to experimentally measurable properties. (*Spring, on demand*)

Establish PHYS 6202/OPTI 6202/ OPTI 8202: Fundamentals of Biomedical Optics

PHYS 6202. Fundamentals of Biomedical Optics. (3) Basic principles underlying tissue optics, laser-tissue interactions, and optical imaging, microscopy, and spectroscopy for medical applications.(*Spring*)

OPTI 6202. Fundamentals of Biomedical Optics. (3) Basic principles underlying tissue optics, laser-tissue interactions, and optical imaging, microscopy, and spectroscopy for medical applications.(*Spring*)

OPTI 8202. Fundamentals of Biomedical Optics. (3) Basic principles underlying tissue optics, laser-tissue interactions, and optical imaging, microscopy, and spectroscopy for medical applications.(*Spring*)

Establish COMM 6102: Professional Seminar in Communication

COMM 6102. Professional Seminar in Communication (3).

Examination of the academic study of communication. The course investigates the role of paradigms and use of the scholarly method. Students develop a scholarly project through a seminar approach. *(Fall)*.

Establish COMM 6103: Communication Ethics

COMM 6103. Communication Ethics (3).
Discussion and analysis of inherently ethical elements of communication praxis in public, community, institutional and organizational domains. Exploration of practical, philosophical and theoretical concerns that affect everyday matters of moral choice and judgment. *(Spring)*.

Establish COMM 6011: Topics in Communication Research Methods

COMM 6011. Topics in Communication Research Methods (3).
Focused and advanced instruction on a specific data analytic methodology relevant to communication studies. Sample foci may include—but are not limited to—focus groups, textual analysis, regression, interviewing, structural equation modeling, ethnographic analysis, hierarchical linear modeling. Prerequisite: COMM 6100 or permission of the instructor. *(Yearly)*.

Revise Core Curriculum in Communication Studies M.A. Program

Degree Requirements
The Master of Arts degree program requires the completion of thirty (30) credit hours of graduate work. All students, regardless of orientation and area of study, must complete five core courses: COMM 6100 Communication Research Methods, COMM 6101 Contemporary Viewpoints in Communication Theory, COMM 6102 Professional Seminar in Communication Studies, COMM 6103 Communication Ethics, and COMM 6011 Topics in Communication Research Methods. Students must also complete an additional 15 hours of COMM credit hours. Students writing a thesis or doing a directed project earn their final six (6) credit hours with these research-based activities. Students electing to sit for the comprehensive examination instead of writing a thesis or conducting a directed project finish up their final six (6) hours with two more elective classes, as the comprehensive examination carries no credit with it. No more than six (6) credit hours may be taken at 5000 level. Successful completion of the degree requires a minimum GPA of 3.0.

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Core Courses

COMM 6100 Communication Research Methods
COMM 6101 Contemporary Viewpoints in Communication Theory
COMM 6102 Professional Seminar in Communication Studies
COMM 6103 Communication Ethics
COMM 6011 Topics in Communication Research Methods

Establish COMM 6880: Independent Study

COMM 6880. Independent Study (3G). Permission of instructor and graduate coordinator. Area of study beyond the scope of current offerings to be devised by student and faculty member. May be repeated. (*Fall, Spring, Summer*).

Establish COMM 5115: Seminar in Health Communication

COMM 5115. Seminar in Health Communication (3G). Course provides in-depth examination of a major area of health communication utilizing extensive readings, discussion and written work. *(Yearly)*