Minutes of the Graduate Council
May 7, 2013 - 3:45 p.m.
Town Hall – Leadership Studies Building


Guests: D. Youngman, R. Dandu, K. Koppel, L. Harrington

Members Absent: D. Ben-Arieh, M. Daniels, T. Gabbard, M. Kaff, K. Kramer, K. Olibe, O. Prakash, A. Rys, R. Welti

1. Opening remarks
   - Provost Mason reported on Dean Shanklin’s 5-year review. The review committee has recommended reappointment for 5 years; Provost Mason has accepted the recommendation.

   - Application processing rates as of 05/07/2013:
     - Fall 2013: 649 domestic (up 77) and 310 international (up 119)
     - Summer 2013: 230 domestic (up 21) and 25 international (up 15)

   - Dean Shanklin welcomed new members to Graduate Council and thanked outgoing members for their service.

2. Minutes of the April 2, 2013 meeting were approved as presented.

3. Graduate School Actions and Announcements
   The following appointments for non-graduate faculty to teach graduate courses and membership were approved by the Dean of the Graduate School.

   Membership Approvals

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION</th>
<th>DEPARTMENT/PROGRAM</th>
<th>DATE APPROVED BY GRAD SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Katherine Nesse</td>
<td>Assistant Professor</td>
<td>Landscape Architecture/Reg Comm. Planning</td>
<td>4/16/2013</td>
</tr>
<tr>
<td>Hyung Jin Kim</td>
<td>Assistant Professor</td>
<td>Landscape Architecture/Reg Comm. Planning</td>
<td>4/16/2013</td>
</tr>
<tr>
<td>Roberta Riportella</td>
<td>Professor</td>
<td>School of Family Studies &amp; Human Services</td>
<td>4/23/2013</td>
</tr>
</tbody>
</table>

4. Academic Affairs Committee
   On behalf of the Academic Affairs committee, Evan Titgemeyer, chair, proposed approval of the following nominations for associate membership and membership and certification. The motion passed.

<table>
<thead>
<tr>
<th>NAME</th>
<th>POSITION</th>
<th>DEPARTMENT/PROGRAM</th>
<th>GRADUATE FACULTY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Xiaomao Lin</td>
<td>Assistant Professor</td>
<td>Agronomy</td>
<td>Memb. &amp; Cert.</td>
</tr>
<tr>
<td>Phillip Klebba</td>
<td>Professor</td>
<td>Biochemistry and Molecular Biophysics</td>
<td>Memb. &amp; Cert.</td>
</tr>
<tr>
<td>Wendy Griswold</td>
<td>Assistant Professor</td>
<td>Landscape Architecture/Reg Comm Plan.</td>
<td>Associate</td>
</tr>
</tbody>
</table>
Course and Curriculum
On behalf of the Academic Affairs committee, Evan Titgemeyer, chair, proposed approval of the following course and curriculum items. The motion passed.

Expedited Course Changes

FROM: COT 702. Applied Research Skills and Methods. (3) Spring. Survey of qualitative and quantitative research methods; use of a range of tools to develop applied research skills focusing on literature reviews. Examines applied research concepts, methods, and skills to foster enlightened decision making in professional practice. Three hours lec. a week. Prereq: COT 701

TO: COT 702. Applied Research Skills and Methods. (3) Spring. Survey of qualitative and quantitative research methods; use of a range of tools to develop applied research skills focusing on literature reviews. Examines applied research concepts, methods, and skills to foster enlightened decision making in professional practice. Three hours lec. a week.

RATIONALE: COT 701 is not necessary as a prerequisite. Removing the prerequisite will help students who choose to enter the PMT program mid-year.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2013

FROM: ART 600 – Advanced Drawing. (3 or 6) I, II. Upper-level drawing, development, and personal motivation. Lectures and problems directed toward an understanding of the historical development of drawing as well as investigations of contemporary studies. Note: May be repeated for 4 semesters. Credits over 3 hours must be approved by the instructor. Pr.: ART 225.

TO: ART 600 - Advanced Drawing. (3 or 6) I, II. Upper-level drawing, development, and personal motivation. Lectures and problems directed toward an understanding of the historical development of drawing as well as investigations of contemporary studies. Note: May be repeated for 4 semesters. Credits over 3 hours must be approved by the instructor. Pr.: ART 325.

RATIONALE: We are changing ART 225 to ART 325 so need to update the change in the pre-requisite for this course.

IMPACT: None

EFFECTIVE DATE: Fall 2013
FROM: ART 610 – Figure Drawing II. (3) I, II. Continuation of Figure Drawing I, with emphasis on individual expression. Note: Six hours lab. May be taken for four semesters. Pr.: ART 225.

TO: ART 610 – Figure Drawing II. (3) I, II. Continuation of Figure Drawing I, with emphasis on individual expression. Note: Six hours lab. May be taken for four semesters. Pr.: ART 325.

RATIONALE: We are changing ART 225 to ART 325 so need to update the change in the pre-requisite for this course.

IMPACT: None

EFFECTIVE DATE: Fall 2013


TO: ART 626 – Advanced Study in Photography. (Variable) I, II. Advanced work in photography, an emphasis on personal development. Note: Competency I camera and photo-related processes required. Pr.: ART 295, ART 611, ART 563.

RATIONALE: As a required course for graduation, this is really a class not independent study and student benefit from group critique on their BFA thesis show work.

IMPACT: None

EFFECTIVE DATE: Fall 2013


TO: ART 530 – Color Printmaking Workshop. (3) I, II. Advanced study of color printmaking. Color theory and practical techniques provide experience in multicolor and intermedia graphic production. May be taken for 12 credit hours maximum. Pr.: ART 235.

RATIONALE: To allow for graduate students to be able to teach the class.

EFFECTIVE DATE: Fall 2013
FROM: MUSIC 641 – Secondary Performance Area. –(4–2) I, II, S. For graduate students who wish to study an instrument (or voice) other than the major performance area. Pedagogical methods and fundamentals are stressed. Pr.: Declared major or minor in any music degree. Baccalaureate degree and previous experience at the undergraduate level.

TO: MUSIC 641 – Secondary Performance Area. (1-3) I, II, S. For graduate students who wish to study an instrument (or voice) other than the major performance area. Pedagogical methods and fundamentals are stressed. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 665 – Jazz Techniques. (2) II, S. Basic practices found in jazz education, including literature, teaching techniques, and resource materials. Pr.: Music 512.

TO: MUSIC 665 – Jazz Techniques. (2) II, S. Basic practices found in jazz education, including literature, teaching techniques, and resource materials. Pr.: None.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 680 – Advanced Instrumental Rehearsal Techniques. (2) II, S. Explore, evaluate, and develop the musical understanding and skills necessary in leading instrumental ensembles toward significant musical expression through effective rehearsal techniques. Pr.: Admission by audition.

TO: MUSIC 680 – Advanced Instrumental Rehearsal Techniques. (2) II, S. Explore, evaluate, and develop the musical understanding and skills necessary in leading instrumental ensembles toward significant musical expression through effective rehearsal techniques. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 805 – Theories of Music Education. (3) On sufficient demand. A survey of the history of music teaching in the United States, with emphasis on the relationship of various theories of music, musical perception, and musical cognition to current practices in teaching music at all levels. Pr.: Nine hours graduate credit in music.

TO: MUSIC 805 – Theories of Music Education. (3) Alternate S. A survey of the history of music teaching in the United States, with emphasis on the relationship of various theories of
music, musical perception, and musical cognition to current practices in teaching music at all levels. Pr.: None.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 808 – Research in Music Education. (3) II, Alternate S. An introduction to historical, descriptive, and experimental research in music education, including a study of techniques for the evaluation of music teaching and learning. Pr.: MUSIC 805.

TO: MUSIC 808 – Research in Music Education. (3) I, Alternate S. An introduction to historical, descriptive, and experimental research in music education, including a study of techniques for the evaluation of music teaching and learning. Pr.: None.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 809 – Seminar in Music Education. (3) I, alternating S. Advanced studies of various topics related to the instrumental, choral, and general music programs in elementary and secondary schools. Note: May be repeated when topics vary. Pr.: MUSIC 805 or graduate standing in music education and consent of the instructor.

TO: MUSIC 809 – Seminar in Music Education. (3) I, alternating S. Advanced studies of various topics related to the instrumental, choral, and general music programs in elementary and secondary schools. Note: May be repeated when topics vary. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 830 – Seminar in Medieval and Renaissance Music. (3) II, in alternate years. In-depth investigation of a selected area or problem in medieval or Renaissance music. Emphasis on individual research. Pr.: MUSIC 601 and consent of instructor.

TO: MUSIC 830 – Seminar in Medieval and Renaissance Music. (3) II, in alternate years. In-depth investigation of a selected area or problem in medieval or Renaissance music. Emphasis on individual research. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

TO: MUSIC 832 – Seminar in Baroque Music. (3) I, in alternate years. In-depth investigation of a selected area or problem in Baroque music. Emphasis on individual research. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013


TO: MUSIC 836 – Seminar in Romantic Music. (3) II, in alternate years. In-depth investigation of a selected area or problem in Romantic music. Emphasis on individual research. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 838 – Opera Theatre. (Var) I, II. Opera workshop for graduates. Pr.: Baccalaureate degree and previous experience at the undergraduate level.

TO: MUSIC 838 – Opera Theatre. (Var.) I, II. Opera workshop for graduates. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 839 – Vocal Ensemble. (4) I, II, S. Performance and study with established University vocal organization or small ensemble. Pr.: Declared major or minor in any music degree.

TO: MUSIC 839 – Vocal Ensemble. (0-1) I, II. Performance and study with established University vocal organization or small ensemble. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013
FROM: MUSIC 840 – Instrumental Ensemble. (4) I, II, S. Performance and study with an established University instrumental organization or small ensemble.

TO: MUSIC 840 – Instrumental Ensemble. (0-1) I, II. Performance and study with an established University instrumental organization or small ensemble. 
Note: Students may enroll in more than one ensemble simultaneously.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 842 – Concert Choir. (4) I, II. Pr.: Declared major or minor in any music degree. Baccalaureate degree and previous experience at the undergraduate level.

TO: MUSIC 842 – Concert Choir. (0-1) I, II. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 843 – Symphony Orchestra. (4) I, II. Pr.: Declared major or minor in any music degree. Baccalaureate degree and previous experience at the undergraduate level.

TO: MUSIC 843 – Symphony Orchestra. (0-1) I, II. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 844 – Concert Jazz Ensemble. (4) I, II. Pr.: Declared major or minor in any music degree. Baccalaureate degree and previous experience at the undergraduate level.

TO: MUSIC 844 – Concert Jazz Ensemble. (0-1) I, II. Pr.: No Prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013
FROM: MUSIC 845 – Symphony Band. (4) I, II. Pr.: Declared major or minor in any music degree. Baccalaureate degree and previous experience at the undergraduate level.

TO: MUSIC 845 – Symphony Band. (0–1) I, II. Pr.: No prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

FROM: MUSIC 885 – Advanced Diction. (1) On sufficient demand. Concentrated study of Italian, German, and French diction for singing. Materials are related to work in the voice studio and concurrent registration in MUSIC 855 is required. Pr.: MUSIC 466. May be repeated once.

TO: MUSIC 885 – Advanced Diction. (1) On sufficient demand. Concentrated study of Italian, German, and French diction for singing. Materials are related to work in the voice studio and concurrent registration in MUSIC 855 is required. Pr.: No prerequisite.

RATIONALE: Updating with current practices.

EFFECTIVE DATE: Fall 2013

<table>
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<tr>
<th>CHANGE FROM:</th>
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<tbody>
<tr>
<td>HN 632 Clinical Nutrition II</td>
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<tr>
<td><strong>Credits (3)</strong></td>
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<tr>
<td>Continuation of the application of nutrition principles in disease; includes physiological and biochemical basis of nutritional care, effects of disease on nutrient metabolism, medical nutrition therapy for critical care needs, standardized language in advanced professional nutrition diagnoses and care of selected diseases.</td>
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<tr>
<td><strong>When Offered:</strong> Spring - Campus</td>
<td><strong>When Offered:</strong> Spring - Campus</td>
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<tr>
<td><strong>Pre-Requisite:</strong> HN 620 and HN 631</td>
<td><strong>Pre-Requisite:</strong> HN 631 taken within the previous five years and HN 620</td>
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<tr>
<td><strong>K-State 8 TAG:</strong> Empirical and Quantitative Reasoning Natural and Physical Sciences</td>
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*Rationale:* The HN 631 Clinical Nutrition I prerequisite for HN 632 Clinical Nutrition II was modified by requiring the student to take it not more than 5 years prior to HN 632 Clinical Nutrition II. This was done to insure that students have updated foundation information needed for HN 632 Clinical Nutrition II.

*Impact:* None

*Effective:* Spring 2014
Non-Expedited New Courses

ADD: AGCOM 786. Topics in Agricultural Communications. (1-3). I, II, S. Examination of current topics in agricultural communications. Note: Varied specialized topics will be offered so course may be repeated.

RATIONALE: The program would use this course number to offer one-time topics courses that address timely subjects pertinent to the agricultural communications discipline. This course also will allow students in the Master’s of Science in Agricultural Education and Communication with a communications focus to have special topics courses transcripted as AGCOM courses, which is relevant to their area of study.

IMPACT: This course will not impact any other programs in campus.

EFFECTIVE DATE: Fall 2013

ADD: AGCOM 820. Communicating Ethical Issues in Agriculture. (3). II. This course provides an introduction to communicating ethical theories in the context of agriculture. Ethical theory and current research are used to critique contemporary issues in agriculture. Three hours of lecture a week.

RATIONALE: Communication ethics is an important topic for future communicators to understand. This course takes the study of communication ethics and applies it in the context of agriculture and natural resources. Professional communications organizations, such as the American Agricultural Editors Association and the National Association of Farm Broadcasters, also view this as an important area as they recently have dedicated time and financial resources to member development in this area. This course is part of the Ag IDEA program.

IMPACT: Adding this course will not impact any other programs on campus.

EFFECTIVE DATE: Fall 2013

ADD: AGCOM 850. Master’s Project. (1-2). I, II, S. The project is designed for students to complete a practitioner-based scholarly project that integrates theory, research and application in relationship to a current need or issue approved by the student’s supervisory committee. While research is included in this project, the focus will be on demonstrating an ability to apply the knowledge and skills learned within the context of a for-profit or not-for-profit enterprise, school, community, organization or policy process.

RATIONALE: The Master’s of Science in Agricultural Education and Communication was approved by the Kansas Board of Regents in May 2012. This graduate program has two emphasis areas – Agricultural Education and Agricultural Communication – and students can do a graduate project or a Master’s thesis. This course would allow students in the communications emphasis area to work on a graduate project and have the credit transcripted in AGCOM, relevant to their area of study.

IMPACT: This course will not impact any other programs on campus.

EFFECTIVE DATE: Fall 2013
ADD: AGCOM 899. Master’s Thesis. (1-6). I, II, S. Students investigate an academic problem in their chosen area of interest and document this investigation in a thesis. The investigation integrates and applies knowledge from courses in the program to address unstructured problems. The thesis is a practice in applying scientific criteria on a problem or topic approved by the student’s supervisory committee and also is practice in applying scientific methods.

RATIONALE: The Master’s of Science in Agricultural Education and Communication was approved by the Kansas Board of Regents in May 2012. This graduate program has two emphasis areas – Agricultural Education and Agricultural Communication – and students can do a graduate project or a Master’s thesis. This course would allow students in the communications emphasis area to work on their thesis and have the credit transcribed in AGCOM, relevant to their area of study.

IMPACT: This course will not impact any other programs on campus.

EFFECTIVE DATE: Fall 2013

ADD: ASI 677. Companion Animal Nutrition. (1) I, Even Years. This course is intended to be taken in sequence following Monogastric Nutrition 675. The course will cover the unique nature of nutrition for companion animals with an emphasis on the nutrition of dogs and cats. Details regarding dentition, digestion, metabolism and nutritional requirements will be covered. In addition, an overview of the nutrition of other minor companion species will be provided. Besides standard assessments methods students will be expected to review current research publications on the topic and provide written and oral presentations germane to the topic. Three hours lecture a week for five weeks. Pr. ASI 675.

RATIONALE: Companion animals such as dogs and cats have become a bigger part of our students’ animal experiences - they live in some 62% of our homes. Companion animals are also increasingly being linked to improvements in human health and emotional well-being, guide and assistance for the handicapped, and service in the military, drug interdiction, and search & rescue. Their connection to people clearly goes beyond mere trivial luxury. The advancements in veterinary care have paralleled human health. However, management aspects such as reproduction, genetics, behavior and nutrition are often overlooked. Kansas State University is in the midst of developing a Pet Food Program with the development of courses and curriculum among various academic departments. Course work explores topics in companion animal management, pet food processing, and pet food sensory analysis. However, no dedicated courses have been established for the instruction in the unique aspects involved with companion animal nutrition. Within the Animal Science & Industry Department there exists a platform for this sort of course work with the Monogastric Nutrition plus species specific modules. Adding a companion animal nutrition module to complement the swine, poultry, and equine specific modules was part of the original design for this program. With the development of the Pet Food Program we have now come to the right time in which to implement this module to the program.

IMPACT: This will add to the teaching load within the department. Faculty in the Grain Science Departments Feed Science & Management group have offered to assist.

EFFECTIVE DATE: Fall 2013
HN 729 Nutritional Oncology
Credits: (3)
Students will gain understanding of basic cancer biology and methodology used to study nutrition and cancer relationships. Using current research as a basis, the role of nutrition in specific cancers will be explored. Students will learn about sources of information for cancer prevention programs, and how to apply this information to clinical patient management.

When Offered: Spring, even numbered years

Pre-Requisite: Admission to the Masters in Dietetics program through the Great Plains Interactive Distance Education Alliance (GPIDEA).

K-State 8 TAG: None

Rationale: New course added for participation in the Master of Science in Dietetics through the Great Plains Interactive Distance Education Alliance (GPIDEA).

Impact: NONE

Effective: Spring 2014

KIN 801 Physical Activity: Physiology to Public Health Impact

Credits: (3)
This graduate seminar covers the study of physical activity and its impact on public health across levels of analysis from basic exercise physiology to social ecology.

When Offered: Fall

Pre-Requisite: None

K-State 8 TAG: None

Rationale: This new graduate course will provide a graduate level integration of the discipline of kinesiology from basic exercise physiology to public health impact. This course is designed to be the first course in a students program of study. It is targeted toward graduate students who did not have a capstone experience in their undergraduate education that provided the context of their specialized graduate emphasis within the broader picture of the academic discipline.

Impact: None

Effective: Fall 2013
Course Add

KIN 822 Advanced Muscle Physiology

Credits: (3)

Course will examine current topics in muscle physiology. Format to include discussion of scientific papers, oral presentations, and debate of controversial topics.

When Offered: Spring

Pre-Requisite: KIN 335 or permission of instructor

K-State 8 TAG: None

Rationale: This course contributes to the M.S. and proposed Ph.D. in Human Ecology with specialization in Kinesiology. We are transitioning courses that were previously taught under different sections of KIN 796 Topics to a stand alone graduate course number. This course has been taught several years in the past and has been included on programs of study of students conducting research in exercise physiology.

Impact: Course will be co-listed in Anatomy & Physiology as AP822. Department of Anatomy and Physiology proposals are before College of Veterinary Medicine for faculty vote, February 22, 2013.

Effective: Spring 2014

Course Add

KIN 824 Physiology of Oxygen Transport

Credits: (3)

This course is designed to promote critical reading of the literature, particularly with respect to the understanding of exercise physiology and cardiorespiratory, vascular and muscle energetics responses. Activities will include presenting papers, debate and discussion regarding all aspects of science and scientific philosophy.

When Offered: Spring

Pre-Requisite: KIN 335 or permission of instructor

K-State 8 TAG: None

Rationale: This course contributes to the M.S. and proposed Ph.D. in Human Ecology with specialization in Kinesiology. We are transitioning courses that were previously taught under different sections of KIN 796 Topics to a stand alone graduate course number. This course has been taught several years in the past and has been included on programs of study of students conducting research in exercise physiology.

Impact: Course will be co-listed in Anatomy & Physiology as AP824. Department of Anatomy and Physiology proposals are before College of Veterinary Medicine for faculty vote, February 22, 2013.

Effective: Spring 2014
Course Add

KIN 826 Advanced Cardiovascular Physiology
Credits: (3)

Discussion and critical examination of cardiovascular control mechanisms, with specific emphasis on regulation of blood pressure during severe challenges such as exercise, heat stress, and upright posture.

When Offered: Fall

Pre-Requisite: KIN 335 or permission of instructor

Rationale: This course contributes to the M.S. and proposed Ph.D. in Human Ecology with specialization in Kinesiology. We are transitioning courses that were previously taught under different sections of KIN 796 Topics to a stand alone graduate course number. This course has been taught several years in the past and has been included on programs of study of students conducting research in exercise physiology.

Impact: Course will be co-listed in Anatomy & Physiology as AP826. Department of Anatomy and Physiology proposals are before College of Veterinary Medicine for faculty vote, February 22, 2013.

Effective: Spring 2014

Course Add

KIN 999 Dissertation Research
Credits: (1-15)

When Offered: Fall, Spring, Summer

Pre-Requisite: None

K-State 8 TAG: None

Rationale: This new graduate course reflects the new doctoral program emphasis to be offered as an option under the College of Human Ecology doctoral degree.

Impact: None

Effective: Fall 2013
Add:  **ME 615. Applications in Mechatronics.** (3) II. Application of Mechanical and Electronic engineering to design. Microcontrollers; sensors; analog-to-digital signal conversion; DC motor operation and pulse width modulation; drive train configuration; embedded C programming; competition at Engineering Open House.

**Note:** Three hours lecture a week.

**Requisites:** Pre-requisite: ME 400 or ECE 431. Co-requisite: ME 535 (not required if ECE 431 is taken)

**Rationale:** Mechatronics is the combination of Mechanical, Electronic, Computer, Control, and Systems Design engineering to create useful products. This course will provide an interdisciplinary, design-oriented, engineering experience requiring teamwork, attention to schedule, and a mixture of theoretical understanding and laboratory skills. A primary objective of this course is participation in a competition at the annual College of Engineering Open House. This course will provide students with the basic skills needed in modern design practice.

**Impact:** BAE offers the course BAE 640 - Instrumentation and Control for Biological Systems. We met with Prof. Zhang, who teaches the course, and determined that there is no conflict. He suggested that we change the name to Applications in Mechatronics, which we have done.

**Effective Date:** Spring 2014

Add:  **ME 777. Monte Carlo Methods.** (3) II (even years). The objective of this course is to explore various methods of Monte Carlo for solving direct and inverse problems in engineering. The course covers probability distributions; laws of large numbers and Central Limit Theorem; pseudorandom number generation; sampling, scoring, and precision; variance reduction procedures; Markov chain Monte Carlo; inverse Monte Carlo; solution of linear operator equations; particle transport simulation.

**Requisites:** Pre-requisite: Math 240 or equivalent and knowledge of a programming language.

**Rationale:** Monte Carlo is a powerful numerical technique that is widely used to estimate solutions to a broad range of problems, including many engineering problems. This course explores various Monte Carlo methods for solving direct and inverse problems in science and engineering. It provides students with the skills needed to apply Monte Carlo methods to practical problems. The course has been offered twice as a special topics course (Spring 2008 and Spring 2010) and it is proposed to offer it in Spring of even-numbered years.

**Impact:** None. Some of the material in this course is addressed in other courses, such as STAT 825 (simulation techniques), STAT 850 (conditional probability), STAT 851 (Markov chains), STAT 980 (probability theory, laws of large numbers, central limit theory), MATH 760 (theory of probability, random variables, expectations, limit theorems, Markov chains), and PHYS 802 (Monte Carlo simulations as one of ten topics). However, no single course covers all the topics that will be covered in this course.

**Effective Date:** Spring 2014
Add: NE 737. Intermediate Radiation Measurement Applications. (3) II (odd years) The course will cover physical principles and mathematical modeling of radiation-based measurement systems used in medical and non-medical applications. Topics include measurement principles and inverse methods, radio-gauging, radio-tracing, quantitative analysis methods, imaging with ionizing radiation, and radiation scanning.

Note: Three hours lecture a week.

Requisites: Pre-requisite: NE 612, NE 690.

Rationale: The undergraduate and graduate offerings in Nuclear Engineering will be enhanced by addition of a course that covers the various measurement applications of ionizing radiation. Radiation is widely used in medicine, industry, and research and this course provides detailed treatment of many of the methods and systems employed. The course has been offered three times as a special topics course (Spring 2007, Spring 2009, and Spring 2011) and it is proposed to offer it in Spring of odd-numbered years.

Impact: None.

Effective Date: Spring 2014

ADD: DMP 710. Introduction to One Health. (2) I. One Health encompasses the complex interrelationships among humans, animals, and the environment. This online course provides a broad introduction to One Health, incorporating original videos of leading experts, case studies, and scientific readings. It addresses zoonotic diseases and environmental issues that impact human, animal, and ecosystem health. This is an online course. Pr.: Two courses in biology

RATIONALE: "One Health" is a concept that gained credence in recent years to articulate the interrelationships among human health, the health of companion animals, livestock, and wildlife, and the overall health of our environment. It reflects the recognition that human health is dependent on many factors, such as emerging zoonotic diseases, the blurring of the urban-suburban-rural interface, and the globalization of the food system on human health and well-being. It is anticipated that this interdisciplinary survey course will be of interest to advanced undergraduates and graduate students in a variety of disciplines, including agricultural and biological sciences, human, public, and veterinary health fields, and the social sciences. Learners will explore how the "one health" perspective improves disease surveillance, enhances cross-disciplinary collaboration, and leads to practical problem-solving in relation to human, animal, and environmental health.

Impact (i.e. if this impacts another college/unit): None

EFFECTIVE DATE: Fall 2013
Non-Expedited Course Changes


TO: ASI 658. Animal Growth and Development. II (3) The molecular and endocrine mechanisms of prenatal and postnatal growth and development of muscle, bone, and adipose tissue will be discussed. Historical and current scientific literature will be reviewed and utilized to reinforce the topics covered. Three hours of lecture a week. Pr. ASI 533 and a course in biochemistry.

RATIONALE: Three changes are being requested for ASI 658. The first requested change involves switching the semester that the course is offered from the Fall to the Spring. The rationale behind this requested change lies in the fact that a Spring offering will allow students the opportunity to take ASI 533 in the Fall and then follow up that course with 658 in the Spring. Therefore, this will allow students the opportunity to take these courses as companion courses over two consecutive semesters without a summer break in between. Because this course builds off of 533, the students will better understand the topics in 658 and seamlessly transition into the material presented in 658. Additionally, the Spring semester will allow more opportunity for the course to utilize the Muscle Biology Laboratory to demonstrate key topics discussed in the course.

The second requested change to the course involves designating ASI 533 and “A course in biochemistry” as hard prerequisites. During the Fall 2012, there were no hard prerequisites for the course which allowed students of various experience and academic background to take the course. At the end of the semester I administered a survey asking the students about the prior courses they have taken and which courses helped them succeed in my course. The results of the survey indicated that the students that had not taken ASI 533 had a very difficult time in the course. The students that had taken ASI 533 commented that ASI 533 helped them succeed in my course because they had a basic knowledge of the tissues we were learning about. Finally, because much of the material I teach is molecular and involves endocrine signaling, a course in biochemistry would aid potential students in understanding the material.

The third requested change involves a change of the course description. As the description is written now, it is very vague and students are not given a fair indication of what the course offers.

IMPACT: No anticipated impact on other departments. Students taking this course already have biochemistry courses required in their curriculum.

EFFECTIVE DATE: Fall 2013
FROM: ANTH 677 – Research Methods in Digital Ethnography. (3) I, II. A hands-on exploration of the uses of digital technology for ethnographic research and representation.

TO: ANTH 777 – Research Methods in Digital Ethnography. (3) II. A hands-on exploration of the uses of digital technology for ethnographic research and representation.

RATIONALE: This course has been offered for 7 years. During this time, several graduate students have taken the course as it is the only course on campus that offers training in qualitative ethnographic research methods with an emphasis on using digital tools from the early phases of observational data gathering through data analysis and on to the final representation. However, as a 600-level course, some graduate students who felt like they needed the course were unable to include it on their plan of study because it would not count toward their degree. Furthermore, raising the course to the 700 level would place the course in its rightful place among the other methods courses we offer: ANTH 792 - Linguistic Field Methods, ANTH 730 – Archaeological Field Methods, and ANTH 790 – Ethnographic Research Methods (currently under review).

IMPACT: Graduate students in other fields who need some background in Digital Ethnography will likely add this to their plan of study. For example, I have had requests from students pursuing Ed.D.s in Education, PhD in Computer Science, and Masters Degree candidates in Communications as well as students in other Arts & Sciences fields interested in pursuing a career related to Digital Humanities.

EFFECTIVE DATE: Spring 2014
Non-Expedited Curriculum Changes

<table>
<thead>
<tr>
<th>Change from:</th>
<th>Change to:</th>
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</thead>
<tbody>
<tr>
<td><strong>Foodservice, Hospitality Management and Dietetics Administration (M.S.)</strong></td>
<td><strong>Hospitality and Dietetics Administration (M.S.)</strong></td>
</tr>
</tbody>
</table>

**Admission**

The **Food Service Management** and Dietetics Administration M.S. is offered through the Hospitality Management and Dietetics graduate program. Admission to the program requires a bachelor’s degree from an accredited institution. Regular admission requires a grade point average of 3.0 on a 4.0 scale. Completion of the following prerequisite coursework is required for regular admission:

- management concepts
- marketing
- food production management and/or lodging management
- food safety and/or current ServSafe Certification

If these prerequisites are not met, the student may be admitted provisionally with the expectation that these deficiencies will be removed within the first two semesters at K-State.

Industry experience in some aspect of foodservice, hospitality management, or dietetics is preferred. If the student has no industry-related work experience, 1000 hours of such experience must be completed during the degree program.

All applicants are required to take the Graduate Record Examination or the Graduate Management Admission Test. International applicants are required to submit results from the Test of English as a Foreign Language. A TOEFL score of 570 (230 CB) is required for admission to M.S. and 600 (250 CB) to Ph.D. programs.

**M.S. program**

Application materials required include: application form; official transcript of all completed academic work; GRE or GMAT scores and TOEFL scores, if applicable; statement of objectives; resume; and three letters of recommendations.

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Application materials required include: application form; official transcript of all completed academic work; GRE or GMAT scores and TOEFL scores, if applicable; statement of objectives; resume; and three letters of recommendations.
GMAT scores and TOEFL scores, if applicable; statement of objectives; resume; and three letters of recommendations. Application materials are reviewed by graduate faculty and recommendations forwarded to the Graduate School.

Master's Degree Requirements

Individual programs of study for the master of science degree are planned according to the background and interests of students. Students may choose one of the following plans:

30 hours of graduate credit consisting of 24 hours of graduate course work and 6 hours of research for a thesis, or 36 hours of graduate course work and a written comprehensive examination and oral defense.

Required course work for master of science (19 hours)

- HMD 805 - Food Production Management Credits: (3)
- OR
- HMD 664 - Lodging Management Theory Credits: (3)
- HMD 810 - Research Techniques for Foodservice and Hospitality Management Credits: (3)
- HMD 885 - Seminar in Foodservice and Hospitality Management Credits: (1)
- HMD 890 - Administration of Foodservice and Hospitality Organizations Credits: (3)
- HMD 895 - Financial Management and Cost Controls for the Hospitality Industry Credits: (3)
- STAT 702 – Statistical Methods for Social Sciences Credits: (3)
- OR
- STAT 703 – Statistical Methods for Natural Scientists Credits: (3)
- ACCTG 810 - Accounting Concepts and Analysis Credits: (3)

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- STAT 703 – Introduction to Statistical Methods for the Sciences Natural Scientists Credits: (3)
- ACCTG 810 - Accounting Concepts and Analysis Credits: (3)

Additional Courses if Completing the Thesis Option (11
Rationale: Change in name of the on-campus Master of Science program from Foodservice, Hospitality Management and Dietetics Administration to Hospitality and Dietetics Administration is more concise and representative of our program focus. We believe that foodservice is subsumed in the terms hospitality and dietetics and thus can be deleted as a separate term. The term “dietetics” can stand alone as representing both management and clinical aspects of dietetics practice. Options for coursework in both aspects of dietetics are available through selection of appropriate courses on the student’s Program of Study.

The removal of STAT 702 Statistical Methods for Social Sciences (3) and STAT 703 Statistical Methods for Natural Sciences (3) course title change reflect changes within the Department of Statistics.

Impact: None

Effective: Fall 2013
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<tr>
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Test of English as a Foreign Language. A TOEFL score of 600 (250 CB) is required for admission to the Ph.D. program. International applicants must also submit an Affidavit of Financial Support.

Ph.D. program

Students desiring to apply for the Ph.D. submit the above materials to:
Ashley Lignitz, Graduate Program Admission Coordinator
Kansas State University
Department of Hospitality Management and Dietetics
104 Justin Hall
Manhattan, Kansas 66506-1404

The deadline for admission is February 1 for fall semester and August 1 for spring semester.

Doctoral Degree Requirements

The Ph.D. requires a minimum of 90 semester credit hours beyond the bachelor’s degree, including 30 credit hours of dissertation research. The number of hours from a previously completed master’s degree which may be counted toward the 90 hour requirement is decided by the student’s supervisory committee and is reviewed by the chair of the College of Human Ecology Coordinating Committee and the Graduate School. A maximum of 30 hours may be transferred from a completed master’s degree. A maximum of 9 credit hours can be transferred from graduate work completed after the master’s degree at another accredited university. Doctoral students are required to pass both written and oral preliminary examinations prior to admission to candidacy.

Doctor of Philosophy Course Requirements

Major Area (Minimum of 60 Credit Hours)

Ph.D. (900-level) Courses (12 Credit Hours)

- HMD 975 - Research and Applied Theories in Consumer Behavior in Foodservice and Hospitality Management Credits: (3)
- OR
- a 900-level or equivalent course

applicants are required to submit results from the Test of English as a Foreign Language. A TOEFL score of 600 (250 CB) is required for admission to the Ph.D. program. International applicants must also submit an Affidavit of Financial Support.

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<td>Administration of Dietetics and Hospitality Programs</td>
<td>(3)</td>
</tr>
<tr>
<td>HMD 985</td>
<td>Advances in Foodservice and Hospitality Management</td>
<td>(3)</td>
</tr>
<tr>
<td>HMD 995</td>
<td>Grantsmanship and Publication</td>
<td>(3)</td>
</tr>
</tbody>
</table>

**Dissertation Proposal Seminar (1 Credit Hour)**
- HMD 990 - Dissertation Proposal Seminar Credits: (1)

**Other Coursework in Major Area (17 Credit Hours)**
- HMD 805 - Food Production Management Credits: (3)
- HMD 885 - Seminar in Foodservice and Hospitality Management Credits: (1)
- HMD 890 - Administration of Foodservice and Hospitality Organizations Credits: (3)
- HMD 895 - Financial Management and Cost Controls for the Hospitality Industry Credits: (3)
- Other HMD Graduate Courses Credits: (7)

**Dissertation Research (30 Credit Hours)**
- HMD 999 - Research in Foodservice or Hospitality Management Credits: (Var.)

**Supporting Areas (22 Credit Hours)**

**Research Skills (10 Credit Hours)**
- STAT 702 – *Statistical Methods for Social Sciences* Credits: (3)
- OR
- STAT 703 – *Statistical Methods for Natural Scientists* Credits: (3)
- STAT 704 - Analysis of Variance Credits: (2)
- AND
- STAT 705 - Regression and Correlation Analyses Credits: (2)
- OR
- STAT 713 - Applied Linear Statistical Models Credits: (4)
- OR
- EDCEP 917 - Experimental Design in Educational Research Credits: (3)
- OR
- STAT 703 – *Introduction to Statistical Methods for the Sciences* Credits: (3)
- STAT 704 - Analysis of Variance Credits: (2)
- AND
- STAT 705 - Regression and Correlation Analyses Credits: (2)
- OR
- STAT 713 - Applied Linear Statistical Models Credits: (4)
- OR
- STAT 720 - Design of Experiments Credits: (3)
- OR
- EDCEP 917 - Experimental Design in Educational Research Credits: (3)
**Course in Research Methods (3 Credit Hours)**

- HMD 810 - Research Techniques for Foodservice and Hospitality Management Credits: (3)

**Other Supporting Courses (9 Credit Hours)**

- ACCTG 810 - Accounting Concepts and Analysis Credits: (3)
- EDCI 943 - Principles of College Teaching Credits: (3)
- Graduate Course Elective (formal course, not independent study) Credits: (3)

**Notes**
Research, seminar, or other independent study hours will not be transferred from a master’s degree into the Ph.D. program of study. No courses with a grade below a B will be accepted from a master’s degree into the Ph.D. program of study.

**Educational Research Credits: (3)**

**Course in Research Methods (3 Credit Hours)**

- HMD 810 - Research Techniques for Foodservice and Hospitality Management Credits: (3)

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**Rationale:** The name of the doctoral program in the Department of Hospitality Management and Dietetics shows in the Graduate Catalog as “Human Ecology with Specialization in Food Service and Hospitality Management (PhD).” We wish to change the name to “Human Ecology with Specialization in Hospitality and Dietetics Administration (PhD).”

A second modification needs to occur in the Registrar’s system. Currently, the Registrar’s system says “Human Ecology with Specialization in Institutional Management”. A change also needs be made to in the Registrar’s system to “Human Ecology with Specialization in Hospitality and Dietetics Administration (PhD)” so that everything is in agreement. The term Institutional Management is a dated term which needs to be deleted.

The removal of STAT 702 Statistical Methods for Social Sciences (3) and STAT 703 Statistical Methods for Natural Sciences (3) course title change reflect changes within the Department of Statistics.

**Impact:** None

**Effective:** Fall 2013
The Department of Kinesiology participates in the Ph.D. program in Human Ecology with a specialization in Kinesiology. Students are prepared to conduct research in exercise physiology or public health physical activity.

**Doctoral Degree Requirements**

The Ph.D. requires a minimum of 90 semester credit hours beyond the bachelor’s degree, including 30 credit hours of dissertation research. The number of hours from a previously completed master’s degree which may be counted toward the 90 hour requirement is decided by the student’s supervisory committee and is reviewed by the chair of the College of Human Ecology Coordinating Committee and the Graduate School. A maximum of 30 hours may be transferred from a completed master’s degree. A maximum of 9 credit hours can be transferred from graduate work completed after the master’s degree at another accredited university. Doctoral students are required to pass both written and oral preliminary examinations prior to admission to candidacy.

- 90 credit hours minimum
- 30 hours minimum of research
- 15 hours minimum at the 800 level or above
- 6 credit hours maximum at the 500 level
- 6 credit hours maximum of independent study
- 30 hours maximum from master’s degree
- Dissertation: preparing three or more papers for publication in exercise physiology or public health physical activity.

**Doctor of Philosophy Course Requirements**

**Major Area (Minimum of 60 Credit Hours)**

**Ph.D. Common Core Courses (6 Credit Hours)**
KIN 801 Physical Activity: Physiology and Public Health Impact  Credits: (3)

KIN 815 Research Methods in Kinesiology  Credits: (3)

Other Coursework in Major Area (14 Credit Hours)

Students develop a plan of study with their major professor and graduate committee to develop an expertise in exercise physiology or public health physical activity. Students may select from the list below or other courses to fulfill the requirement

Exercise Physiology
Choose from the following courses:

- KIN 601 - Cardiorespiratory Exercise Physiology  Credits: (3)
- KIN 603 - Cardiovascular Exercise Physiology  Credits: (3)
- KIN 605 - Topics in the Biological Basis  Credits: (1-3)
- KIN 607 - Muscle Exercise Physiology  Credits: (3)
- KIN 609 - Environmental Physiology  Credits: (3)
- KIN 625 - Exercise Testing and Prescription  Credits: (3)
- KIN 635 - Nutrition and Exercise  Credits: (3)
- KIN 650 - Development of Motor Control  Credits: (3)
- KIN 657 - Therapeutic Use of Exercise in the Treatment of Disease  Credits: (3)
- KIN 792 - Health-Fitness Instructor Internship  Credits: (3)
- KIN 800 - Advanced Physiology of Exercise  Credits: (3)
- KIN 822 – Advanced Muscle Physiology  Credits: (3)
- KIN 824 – Physiology of Oxygen Transport  Credits: (3)
- KIN 826 – Advanced Cardiovascular Physiology
KIN 896 - Independent Study in Kinesiology Credits: (1-4)

Public Health Physical Activity
Choose from the following courses:
- KIN 602 - Gender Issues in Sport and Exercise Credits: (3)
- KIN 604 - Exercise and Mental Health Credits: (3)
- KIN 606 - Topics in the Behavioral Basis of Kinesiology Credits: (1-3)
- KIN 608 - Body Image, Eating Disorders & Obesity Credits: (3)
- KIN 610 - Program Planning and Evaluation Credits: (3)
- KIN 612 - Built Environment and Physical Activity Credits: (3)
- KIN 655 - Fitness Promotion Credits: (3)
- KIN 703 - Minority Groups in Sport Credits: (3)
- KIN 793 - Internship/Public Health Physical Activity Credits: (1-8)
- KIN 797 - Topics in Public Health Physical Activity Behavior Credits: (1-4)
- KIN 805 - Physical Activity and Human Behavior Credits: (3)
- KIN 808 - Social Epidemiology of Physical Activity Credits: (3)
- KIN 818 - Social and Behavioral Bases of Public Health Credits: (3)
- KIN 820 - Physical Activity Leadership Credits: (3)
- KIN 835 - Group Dynamics and Physical Activity Credits: (3)
- KIN 840 - Public Health Field Experience Credits: (3-6)
- KIN 845 - Exercise Adherence Credits: (3)
- KIN 855 - Exercise Psychology in Special Populations Credits: (3)
- KIN 896 - Independent Study in Kinesiology Credits: (1-4)

**Supporting Statistic Courses (10 Credit Hours)**

- STAT 703 Introduction to Statistical Methods for the Sciences Credits: (3)
- STAT 704 Analysis of Variance Credits: (2)
- STAT 705 Regression and Correlation Analyses Credits: (2)
- STAT 720 Design of Experiments Credits: (3)

**Dissertation Research (30 Credit Hours)**

- KIN 999 Dissertation Research Credits: (30)

**Rationale:** Kinesiology is the scientific study of physical activity examining the person, environment, and physical activity interactions that result in adaptations from cell to society. The field is consistent with a human ecological approach to the study of physical activity. Therefore, this curriculum defines an emphasis within the Ph.D. in Human Ecology in Kinesiology. The Department of Kinesiology faculty members have a long and successful history of chairing doctoral committees for students seeking Ph.D. degrees in Anatomy & Physiology and in Human Nutrition. Offering a Ph.D. in Human Ecology with an emphasis in Kinesiology will better represent the plan of study of students seeking Ph.D. education in this content area. In addition, offering this emphasis area will assist in marketing current Ph.D. education activities and will contribute to meeting the 2025 goals of increasing the number of Ph.D. students at Kansas State University.

**Impact:** None

**Effective:** Fall 2013
5. **Graduate Student Affairs Committee**
   - No action items to report.

6. **Graduate School Committee on Planning**
   - The committee voted in favor of the appointment of DCE Ex-Officio Member to the Graduate Council.
   Changes in the by-laws of Graduate Council will be initiated in the Graduate Handbook fall semester.

   - On behalf of the Committee on Planning, David Yetter, chair, proposed the following changes to the graduate handbook. The motion passed.
     a. Chapter 1, Section B Entrance Requirements: 1-c
        CURRENT:
        Grade point average (GPA) of 3.0 or higher on a 4.0 scale in the last 60 hours of coursework. This GPA is based only on courses graded on a multi-level scale, usually A, B, C, D, F.

        PROPOSED:
        Cumulative grade point average (GPA) of 3.0 or higher on a 4.0 scale or GPA of 3.0 in the last 60 hours of coursework. This GPA is based only on courses graded on a multi-level scale, usually A, B, C, D, F.

     b. Enrollment Requirement Addition: Chapter 3-I
        PROPOSED:
        Students must enroll in at least one credit hour during any and all semesters in which they are actively engaged in the preliminary examination process.

7. **Graduate School Committee on Assessment and Review**
   Royce Ann Collins, chair, announced the following assessment plan had been approved:
   - **Assessment Plan:** PhD in Human Ecology with Emphasis in Kinesiology (updated SLO’s)

8. **Graduate Student Council Information – Amanda Fairbanks, President-Elect**
   - The graduate student barbecue at the President’s home was a success with an estimated 250 students in attendance. The President will be hosting a similar event next April. Graduate Student Council travel grant awards and guidelines have changed. Information can be found at [www.k-state.edu/grad/studentcouncil/travelawards.html](http://www.k-state.edu/grad/studentcouncil/travelawards.html). Changes are highlighted below.
     - Grants will be now be awarded monthly instead of quarterly
     - The application process has been streamlined and an online form has been developed.
     - The dollar amount for grants has increased and varies upon presentation type and location of the meeting.

     - May 9: Ice cream social on eastside of Fairchild Hall (3:00-5:00 p.m.)

9. **University Research and Scholarship**
   - No items to report
10. Graduate School Calendar of Events: May- June

May
6   Graduate Student Council Meeting (12:00 pm – Waters 137)
7   Graduate Council Meeting (3:30 pm – 5:00 pm - Union 212)
9   Graduation Bash sponsored by Alumni Association (4:00-6:00 p.m. Alumni Association)
9   Graduate Student Council Ice Cream Social (3:00 – 5:00 p.m., Outside Fairchild Hall)
17  Graduate School Commencement (1:00 pm – Bramlage Coliseum)

June
1   Graduate Student Council travel grant application deadline for travel period 2 (July 1 – Sept 30)
    **Due 5:00 p.m. CST**
5   KSU Career Speaker Series – Diane Darling “Make Your Network Work for YOU!” (8:00-9:00p.m.).

- For a current list of Graduate School events, please see our website at:
  http://www.k-state.edu/grad/2012-2013%20calendar.pdf