I. APPROVAL OF THE MARCH 8, 2011 CAC MINUTES

II. REPORT OF THE COMMITTEE ON GRADUATE STUDIES (CGS)
   Submitted by Savanna Trent; presented by Brian Laird, 2010-2011 CGS Chair

   A. Curricular Changes

      1. New courses: BIOL 809, CHEM 760, ENGL 757, WGSS 800, WGSS 801, WGSS 802, WGSS 803, WGSS 804, and WGSS 810


         *Courses with an asterisk indicate a course number change proposal.

      3. Course deletions: CHEM 801, CHEM 803, CHEM 807, CHEM 811, and CHEM 966

   B. Program Changes

      Anthropology M.A. program change proposals (2)

   C. Information Item

      Deletion of Gerontology Graduate Certificate

III. REPORT OF THE COMMITTEE ON UNDERGRADUATE STUDIES & ADVISING (CUSA)
    Submitted by Susan McGee, Presented by Donna Tucker, 2010-2011 CUSA Chair
    (*Note: CUSA did not meet on March 22 due to Spring Break.)

    Curricular Changes for Approval

    CHANGES: PRNT 599, TD 599

    Next meeting of the CAC will be Tuesday, May 10, 2011, at 4:00 PM in 210 Strong Hall
I. APPROVAL OF THE MARCH 8, 2011 CAC MINUTES

College of Liberal Arts & Sciences
College Academic Council
Minutes – March 8, 2011

Committee members in attendance: David Benson, Kelly Berksen, Sharon Billings, Greg Burg, Marta Caminero-Santangelo, Jonathan Clark, Michelle Heffner Hayes, Allard Jongman, Robin Rowland, Steve Sanders and John Tibbetts
Others in attendance: Brian Laird, Sonya Lancaster, Kim McNeley, Jim Mielke, Becca Peterson, Anne Sawyer, Donna Tucker and Rob Weaver

The meeting was called to order by Associate Dean Rob Weaver at 4:00 PM.

Minutes
A motion was made and seconded to approve the February 8, 2011 minutes of the College Academic Council as written. The motion was approved unanimously.

Report of the Committee on Graduate Studies (CGS)
(Brian Laird, 2010-2011 CGS Chair, reporting)

- The motion (CGS report by Brian Laird) was seconded, and the CAC voted unanimously to approve the following curricular changes:
  - New courses: ANTH 707, ANTH 897, ANTH 898, CHEM 700, and CHEM 900
  - Course changes: ABSC 841, CHEM 980, CHEM 981, and HA 719, pending correction on line 8 of the ABSC course description: “...manuscripts submitted to peer-reviewed journals...” (delete the word “in”)
  - Course deletions: ABSC 845, CHEM 716, CHEM 720, CHEM 767, CHEM 901, CHEM 902, CHEM 906, CHEM 907, CHEM 910, CHEM 911, CHEM 912, CHEM 913, CHEM 918, CHEM 919, CHEM 959, CHEM 971, and CHEM 991

- The motion (CGS report by Brian Laird) was seconded, and the CAC voted unanimously to approve the renewal of the Applied Behavioral Science: Community Health and Development Graduate Certificate

- The motion (CGS report by Brian Laird) was seconded, and the CAC voted unanimously to approve the proposed Master’s Degree Examination Requirements Policy. The newly approved policy may be found in the KU Policy Library at this link: https://documents.ku.edu/policies/Graduate_Studies/mafinalexams.htm

Report of the Committee on Undergraduate Studies & Advising (CUSA)
(Donna Tucker, 2010-2011 CUSA Chair, reporting)

- The motion (CUSA report by Donna Tucker) was seconded, and the CAC voted unanimously to approve the following curricular changes:
  - New courses: GIST 201, GIST 501, ENGL 390, HNDI 301, HNDI 310, HNDI 320, REL 550, REL 557, pending correction of the title of REL 557 to read “Modern Islamic Reform Movements”
  - Course changes: ENGL 590, GEOG 510, PUAD 332, PUAD 431, PUAD 432, PUAD 433, PUAD 435, PUAD 436, PUAD 601, PUAD 602, PUAD 694, REL 475
o Course deletions/deactivations: ANTH 220, ANTH 369, ANTH 378, COMS 455, POLS 412, POLS 505, POLS 513

- The motion (CUSA report by Donna Tucker) was seconded, and the CAC voted unanimously to approve the following Degree Requirements:
  o Change to Existing B.A and B.G.S. in Political Science Major
  o Change to Existing Linguistics Minor

After receiving a motion and a second, the CAC voted unanimously to adjourn the meeting at 4:20 PM.

Next College Academic Council Meeting: Tuesday, April 12, 2011, 4:00 PM (210 Strong Hall)

Minutes recorded and transcribed by Anne Sawyer (Secretary to the College Assembly)

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II. REPORT OF THE COMMITTEE ON GRADUATE STUDIES (CGS)
Submitted by Savanna Trent, presented by Brian Laird

A. Summary of Curricular Changes

1. New courses: BIOL 809, CHEM 760, ENGL 757, WGSS 800, WGSS 801, WGSS 802, WGSS 803, WGSS 804, and WGSS 810

BIOLOGY

BIOL 809 Graduate Molecular Biosciences for Medicinal Chemists (4). An introduction to the advanced study of biochemistry, microbiology, and neurobiology for graduate students in Medicinal Chemistry. Meets concurrently with BIOL 807. Prerequisite: Admission to the graduate program in Medicinal Chemistry and consent of instructor. LEC

JUSTIFICATION
The 6-credit course BIOL 807 Graduate Molecular Biosciences is a requirement for all first-year graduate students in Molecular Biosciences, and presents lectures across the range of all faculty interests in the Molecular Biosciences Department. Faculty in the Medicinal Chemistry Dept. would like many of their students to learn the majority of this information (especially biochemistry and neurobiology topics), and feel that their students would benefit from attending many of the lectures that the Molecular Biosciences students take. But not all of the lectures are germane to Medicinal Chemistry students, and those students must take many credits of Medicinal Chemistry courses, so taking a 6-credit course in another department would not be possible. Therefore, we propose to allow Medicinal Chemistry students to take 2/3 of BIOL 807 as a smaller 4-credit course of material particularly germane to the field of Medicinal Chemistry. The course lectures are given and tested in a modular fashion, so it adapts well to this approach. The course would still be taught entirely by faculty with appointments in Molecular Biosciences, and so would retain the BIOL designation.

CHEMISTRY

CHEM 760 Introduction to Chemistry in Biology (3). A comprehensive introduction to the application of chemistry to address problems in biology at the molecular level. The fundamentals of biomolecules
(nucleic acids, proteins, lipids and carbohydrates) and techniques of chemical biology research will be discussed. LEC

JUSTIFICATION
We have a significant number of faculty members in our department whose research is involves the application of chemistry to biological systems. This new course is designed to introduce our graduate students to this area, one that is currently not represented in our curriculum or that of other departments. This will enhance the training and recruitment of graduate students interested in the interface of chemistry and biology, an area of significant and growing interest.

ENGLISH

ENGL 757 Speculative Fiction Writing Workshop (3). An intensive, 2-week course in writing speculative fiction, including genres such as slipstream, magical realism, fantasy, horror, and science fiction. The course is part of the Center for the Study of Science Fiction Summer Institute. Application period: Jan 1 - April 15. Application includes note to instructor expressing interest and one story. May be repeated for credit with Instructor’s permission. LEC

JUSTIFICATION
This has been taught as a special summer program for over a decade. Because student interest has remained high and there are faculty available to teach it on a regular basis, we would like to make it a formal course. It will fulfill an elective course requirement in our MFA program and make available a summer elective for creative writing students.

WOMEN, GENDER, AND SEXUALITY STUDIES

WGSS 800 History of Women, Gender, and Sexuality Studies (3). An introduction to the field of women, gender, and sexuality studies, paying particular attention to its development, its reception by and influence on academic disciplines, and its institutionalization. Prerequisite: graduate standing and consent of the instructor. SEM

JUSTIFICATION
WGSS (please note change in department rubric) is anticipating that our PhD proposal will be approved by the Board of Regents in mid November. If so, we will want to recruit graduate students immediately to matriculate into the program in Fall 2011. We have proposed 5 new, required courses and one new elective. This course is the first of the 5 new, required courses.

WGSS 801 Feminist Theory (3). A survey of contemporary feminist theories produced within and across disciplines (including but not limited to, eco-feminism, and liberal, cultural, materialist, psychoanalytic, radical, and black feminist thought). Prerequisites: graduate standing and consent of the instructor. SEM

JUSTIFICATION
WGSS (please note change in department rubric) is anticipating that our PhD proposal will be approved by the Board of Regents in mid November. If so, we will want to recruit graduate students immediately to matriculate into the program in Fall 2011. We have proposed 5 new, required courses and one new elective. This course is the second of the 5 new, required courses.

WGSS 802 Feminist Methodologies (3). An introduction to the methods used in feminist research in the humanities, social sciences, and natural sciences (e.g., quantitative and qualitative research methods, archival research, and oral histories). We will consider examples of applications of each method, the strengths and limitations of each method, and how each method relates to feminist theories and principles. Prerequisites: graduate standing and consent of the instructor. SEM

JUSTIFICATION
WGSS 802 is the first course (along with 803 and 804) designed to help satisfy the requirements of the Research Skills and Responsible Scholarship requirement. This course concentrates on acquiring the necessary skills and methodologies for conducting successful feminist research.
WGSS 803 Topics in Feminist Pedagogy: _____ (0.5) The goal of the course is to teach students to teach. By reading core texts of feminist pedagogy, understanding critical theories, and attending seminars at the Center for Teaching Excellence selected by instructor and student, students will learn how to present knowledge and stimulate learning in the classroom, as well as such practical skills as leading discussion sections, preparing and presenting class sessions, developing syllabi, devising fair grading and helpful advising, and solving pedagogical problems like maintaining civility in the classroom and coping with academic misconduct. Must be repeated twice for a total of 1 credit hour while actively teaching. Prerequisite: must be WGSS graduate students. SEM

JUSTIFICATION
WGSS 803 is the second course (along with 802 and 804) designed to help satisfy the requirements of the Research Skills and Responsible Scholarship requirement. The first iteration of the course will be taken while the student leads a discussion section of a lecture course (the instructor of that course will also be the instructor of 803); the second iteration will be taken while a student teaches their own course (the instructor of this iteration of 803 will be a core member of the WGSS faculty). Since the two iterations have different contexts and a different relationship between student and instructor, their content will differ: the first iteration will model successful teaching, the second will support the development of teaching skills.

WGSS 804 Topics in Professional Development: _____ (1 hour). The goal of this course is to train students in the skills essential to becoming effective scholars and educators, and successful members of the profession. The material to be covered by these three iterations includes 1) the ethics and practice of feminist research (e.g., protection of human subjects, conflicts of interest, confidentiality, legal strictures); 2) the practical aspects of producing knowledge (e.g., writing research papers, proper citation methods, conference presenting, responding to peer reviews); and 3) acquiring and securing a place in the work force (e.g., CV preparation, job interviews, grant writing, getting promotion [and, in the academy, tenure]). Must be repeated three times for a total of 3 credit hours. Prerequisite: must be WGSS graduate students. SEM

JUSTIFICATION
WGSS 804 is the third course (along with 802 and 803) designed to help satisfy the requirements of the Research Skills and Responsible Scholarship requirement. The three iterations of the course will address three pragmatic areas of the profession: the ethics and practice of feminist research; the production of knowledge; and acquiring and securing a place in the work force.

WGSS 810 Comparative Sexualities (3). Employing an interdisciplinary and comparative perspective, this course introduces the study of human sexuality in various disciplines. Students will also gain an understanding of the historical development and cross-cultural analysis of sexuality research, including the methodological, theoretical, and ethical issues involved in investigating sexual behavior and meanings. Prerequisites: graduate standing and consent of the instructor. SEM

JUSTIFICATION
WGSS (please note change in department rubric) is anticipating that our PhD proposal will be approved by the Board of Regents in mid November. If so, we will want to recruit graduate students immediately to matriculate into the program in Fall 2011. We have proposed 5 new, required courses and one new elective. This course is the fifth of the 5 new, required courses.


*Courses with an asterisk indicate a course number change proposal.

CHEMISTRY

CHANGE: NUMBER
CHEM 731 Fundamentals and Methods of Analytical Chemistry (3). An introductory graduate level course in analytical chemistry, in which the principles of electrochemistry, spectroscopy, and separation science are utilized to solve analytical problems in inorganic, organic and biochemistry. Prerequisite: An undergraduate course in analytical chemistry, a year of organic chemistry, and a year of physical chemistry. LEC

CHEM 720 Fundamentals and Methods of Analytical Chemistry (3). An introductory graduate level course in analytical chemistry, in which the principles of electrochemistry, spectroscopy, and separation science are utilized to solve analytical problems in inorganic, organic and biochemistry. Prerequisite: An undergraduate course in analytical chemistry, a year of organic chemistry, and a year of physical chemistry. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: NUMBER & PREREQUISITE

CHEM 737 Coordination and Organometallic Chemistry (3). An examination of the basic foundations of coordination chemistry and organometallic chemistry including symmetry methods, bonding, magnetism, and reaction mechanisms. Two semesters of organic chemistry and one semester of physical chemistry in which quantum chemistry is introduced. The latter course may be taken concurrently with CHEM 737. LEC

CHEM 730 Coordination and Organometallic Chemistry (3). An examination of the basic foundations of coordination chemistry and organometallic chemistry including symmetry methods, bonding, magnetism, and reaction mechanisms. Prerequisite: Two semesters of organic chemistry and one semester of physical chemistry in which quantum chemistry is introduced. The latter course may be taken concurrently with CHEM 730. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: NUMBER & TITLE

CHEM 742 Physical Organic Chemistry I (3) An examination of the methods used to probe the mechanisms of organic reactions and of the chemistry of some important reactive intermediates. Topics will include isotope effects, kinetics, linear free energy relationships, solvent effects, a continuing discussion of orbital symmetry, rearrangements, carbocations, carbanions, carbenes, radicals, excited states, and strained molecules. Prerequisite: CHEM 740. LEC

CHEM 840 Physical Organic Chemistry (3) An examination of the methods used to probe the mechanisms of organic reactions and of the chemistry of some important reactive intermediates. Topics will include isotope effects, kinetics, linear free energy relationships, solvent effects, a continuing discussion of orbital symmetry, rearrangements, carbocations, carbanions, carbenes, radicals, excited states, and strained molecules. Prerequisite: CHEM 740. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and
logical. We have requested that the follow-on course, "Physical Organic Chemistry II," be deleted, hence the "I" in the title is no longer applicable.

CHANGE: DESCRIPTION & TITLE

(OLD)
CHEM 750 Quantum Chemistry and Spectroscopy (3). An introductory study of the application of quantum mechanics to atomic and molecular systems. Includes an introduction to the basic principles of quantum theory, description of electronic structure of atoms and molecules, and the foundations of spectroscopy. Contains a brief presentation of group theory and its applications to the analysis of molecular symmetry, spectra and structure. Prerequisite: Two semesters of physical chemistry. LEC

(NEW)
CHEM 750 Introduction to Quantum Mechanics (3). An introduction to the basic principles of quantum theory relevant to atomic and molecular systems. Topics include operators and operator algebra, matrix theory, eigenvalue problems, postulates of quantum mechanics, the Schrodinger equation, angular momentum, electronic structure, molecular vibrations, approximation methods, group theory, and the foundations of spectroscopy. Prerequisite: Two semesters of physical chemistry. LEC

JUSTIFICATION
We are proposing changes to the course title and description that more accurately reflect how the course is currently taught and will be taught in the future.

CHANGE: DESCRIPTION & NUMBER

(OLD)
CHEM 752 Statistical Thermodynamics (3). Thermodynamics and introduction to equilibrium statistical mechanics with emphasis on problems of chemical interest. The course consists of two roughly equal parts: 1) An advanced overview of the laws and concepts of thermodynamics with application to specific problems in phase and chemical equilibria and 2) An introduction to equilibrium statistical mechanics for both classical and quantum systems. CHEM 750 or its equivalent. LEC

(NEW)
CHEM 852 Statistical Thermodynamics (3). Thermodynamics and introduction to equilibrium statistical mechanics with emphasis on problems of chemical interest. The course consists of two roughly equal parts: 1) An advanced overview of the laws and concepts of thermodynamics with application to specific problems in phase and chemical equilibria and 2) An introduction to equilibrium statistical mechanics for both classical and quantum systems. Prerequisite: CHEM 750 or its equivalent. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: DESCRIPTION & NUMBER

(OLD)
CHEM 754 Chemical Kinetics and Dynamics (3). Chemical kinetics and introduction to chemical reaction dynamics. The course consists of two parts: 1) An advanced overview of chemical kinetics including reaction mechanisms and rate laws with applications to unimolecular and bimolecular reactions, catalysis, and energy transfer, and 2) An introduction to reaction rate theory including transition state theory. Marcus electron transfer theory, and collision theory. CHEM 750 or its equivalent. LEC

(NEW)
CHEM 854 Chemical Kinetics and Dynamics (3). A study of the rates, mechanisms, and dynamics of chemical reactions in gases and liquids. Topics include an advanced overview of classical kinetics, reaction
rate theories (classical collision theory, transition-state theory and introductory scattering theory), potential energy surfaces, molecular beam reactions, photochemistry, Marcus electron transfer theory and other areas of current interest. Prerequisite: CHEM 750 or its equivalent. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. We are also proposing changes to the course description to improve the wording and better reflect how the course is being taught in practice.

CHANGE: NUMBER

(OLD)
CHEM 763 Organic Synthesis I (3). A discussion of fundamental reactions for the formation of carbon-carbon bonds, oxidation, reduction, and functional group interchange. Prerequisite: CHEM 740. LEC

(NEW)
CHEM 842 Organic Synthesis I (3). A discussion of fundamental reactions for the formation of carbon-carbon bonds, oxidation, reduction, and functional group interchange. Prerequisite: CHEM 740. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: DESCRIPTION, NUMBER & PREREQUISITE

(OLD)
CHEM 766 Spectroscopic Identification of Organic Compounds (3). The use of techniques such as infrared, nuclear magnetic resonance, and ultraviolet spectroscopy, and mass spectrometry for elucidating the structure of organic molecules. A lecture and workshop course. Prerequisite: CHEM 626 and CHEM 627, or CHEM 707. LEC

(NEW)
CHEM 742 Spectroscopic Identification of Organic Compounds (3). The use of techniques such as infrared, nuclear magnetic resonance, ultraviolet spectroscopy, and mass spectrometry for elucidating the structure of organic molecules. A lecture and workshop course. Prerequisite: CHEM 626 and CHEM 627. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. One listed prerequisite, CHEM 707, no longer exists.

CHANGE: TITLE

(OLD)
CHEM 810 Physical Chemistry Colloquium (1). Colloquia on various topics of current interest are presented by students, faculty, and visiting scientists. LEC

(NEW)
CHEM 810 Colloquium: _____ (1). Colloquia on various topics of current interest are presented by students, faculty, and visiting scientists. LEC

JUSTIFICATION
We are replacing five different colloquium courses in the various sub-fields of Chemistry with this single course which can be offered with different topics.

CHANGE: CREDIT HOURS, DESCRIPTION, NUMBER, PREREQUISITE, & TITLE
CHEM 903 Electrical Methods of Analysis (2). An advanced treatment of selected electroanalytical techniques and methodology. The theory is augmented by applied laboratory work. Prerequisite: CHEM 731 or its equivalent. LEC

CHEM 822 Electrochemical Analysis (3). An advanced treatment of selected electroanalytical techniques and methodology. Prerequisite: CHEM 720. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. For this course, we are also updating the course name, description and credit hours to fit the department's view of how it will best address the needs of our graduate students.

CHANGE: NUMBER & PREREQUISITE

CHEM 904 Analytical Separations (3). An advanced treatment of analytical separations techniques. The theory of separation science will be augmented with discussion of practical aspects of instrumentation and experiment design. Prerequisite: CHEM 731 or permission of instructor. LEC

CHEM 820 Analytical Separations (3). An advanced treatment of analytical separations techniques. The theory of separation science will be augmented with discussion of practical aspects of instrumentation and experiment design. Prerequisite: CHEM 720. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: DESCRIPTION, NUMBER, & PREREQUISITE

CHEM 908 Spectrochemical Methods of Analysis (3). Lecture and laboratory course; general concepts of encoding chemical information as electromagnetic radiation; major instrumental systems for decoding, interpretation, and presentation of the radiation signals; atomic emission, absorption, and fluorescence; ultraviolet, visible, infrared, and microwave absorption; molecular luminescence; scattering methods; mass spectrometry; magnetic resonance; automated spectrometric systems. Prerequisite: CHEM 731 and CHEM 750. LEC

CHEM 824 Spectrochemical Methods of Analysis (3). General concepts of encoding chemical information as electromagnetic radiation; major instrumental systems for decoding, interpretation, and presentation of the radiation signals; atomic emission, absorption, and fluorescence; ultraviolet, visible, infrared, and microwave absorption; molecular luminescence; scattering methods; mass spectrometry; magnetic resonance; automated spectrometric systems. Prerequisite: CHEM 720. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. For this course, we are also updating the course description and prerequisites to fit the department's view of how it will best address the needs of our graduate students.

CHANGE: DESCRIPTION, NUMBER, & TITLE
CHEM 915 Intermediate Quantum Mechanics (3). The mathematical and physical principles of quantum chemistry, including vector spaces, operators and operator algebra, matrix theory, eigenvalue problems, postulates of quantum mechanics, the Schrodinger equation, angular momentum, approximation methods, and atomic and molecular systems. CHEM 750 or its equivalent. LEC

CHEM 850 Advanced Quantum Mechanics (3). The advanced mathematical and physical principles of quantum mechanics relevant to atomic and molecular systems. Topics may include abstract vector spaces and representations, time-dependent quantum dynamics, electronic structure theory, density matrices, second-quantization, advanced group theory, path integrals, and scattering theory. Prerequisite: CHEM 750 or its equivalent. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. We are also proposing changes to the title and description of this course to reflect the previous deletion of CHEM 918, the change in course description for CHEM 750 and the content envisioned for this course moving forward.

CHANGE: DESCRIPTION & NUMBER

CHEM 916 Molecular Spectroscopy (3). Quantitative molecular spectroscopy and its chemical applications. The basic principles of the molecular energy levels, selection rules and spectral transition intensities, and spectral interpretation will be discussed and applied to nuclear and electron magnetic resonance, rotational, vibrational, vibration-rotation, Raman, electronic and Mossbauer spectroscopy. CHEM 750 or its equivalent. LEC

CHEM 856 Molecular Spectroscopy (3). Quantitative molecular spectroscopy and its chemical applications. The basic principles of the molecular energy levels, selection rules and spectral transition intensities will be discussed and applied to rotational, vibrational, electronic, and nuclear magnetic spectroscopy. Linear and nonlinear spectroscopies will be addressed. Prerequisite: CHEM 750 or its equivalent. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. We are also proposing minor changes to the course description to better reflect the current content of the course.

CHANGE: NUMBER & PREREQUISITE

CHEM 917 Advanced Statistical Mechanics (3). Advanced equilibrium statistical mechanics and introduction to nonequilibrium statistical mechanics. Topics include: the theory of liquids, critical phenomena linear response theory and time correlation functions, Langevin dynamics, and molecular hydrodynamics. (Same as PHSX 971.) CHEM 909 or equivalent. LEC

CHEM 950 Advanced Statistical Mechanics (3). Advanced equilibrium statistical mechanics and introduction to nonequilibrium statistical mechanics. Topics include: the theory of liquids, critical phenomena linear response theory and time correlation functions, Langevin dynamics, and molecular hydrodynamics. (Same as PHSX 971.) CHEM 852 or equivalent. LEC
JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. (Also CHEM 909 no longer exists.)

CHANGE: NUMBER & PREREQUISITE

(OLD)
CHEM 920 Mass Spectrometry (3). An introduction to mass spectrometry. The various ionization techniques and mass analyzers will be discussed, and many examples of different mass spectrometric applications will be introduced. Prerequisite: CHEM 731 or permission of instructor. LEC

(NEW)
CHEM 826 Mass Spectrometry (3). An introduction to mass spectrometry. The various ionization techniques and mass analyzers will be discussed, and many examples of different mass spectrometric applications will be introduced. Prerequisite: CHEM 720. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: NUMBER & PREREQUISITE

(OLD)
CHEM 925 Bioanalysis (3). A course covering important aspects in modern chemical measurement with particular emphasis placed on bioanalysis. This course will survey the modern analytical challenges associated with the ongoing efforts in genomics and proteomics and discuss future trends in methods in instrumentation. Prerequisite: CHEM 731 or permission of instructor. LEC

(NEW)
CHEM 828 Bioanalysis (3). A course covering important aspects in modern chemical measurement with particular emphasis placed on bioanalysis. This course will survey the modern analytical challenges associated with the ongoing efforts in genomics and proteomics and discuss future trends in methods in instrumentation. Prerequisite: CHEM 720. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.

CHANGE: NUMBER & PREREQUISITE

(OLD)
CHEM 963 Organic Synthesis II (3). A survey of important techniques in organic chemistry with respect to scope, limitations, mechanism, and stereochemistry. Emphasis will be placed on new synthetic methods and application of such methods to the synthesis of structurally interesting compounds, particularly natural products. Prerequisite: CHEM 763. LEC

(NEW)
CHEM 942 Organic Synthesis II (3). A survey of important techniques in organic chemistry with respect to scope, limitations, mechanism, and stereochemistry. Emphasis will be placed on new synthetic methods and application of such methods to the synthesis of structurally interesting compounds, particularly natural products. Prerequisite: CHEM 842. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical.
CHANGE: DESCRIPTION, NUMBER, PREREQUISITE, & TITLE

(OLD)
CHEM 982 Inorganic Structure and Mechanisms (3). The use of quantum theory and group theory in interpreting bonding and physical and chemical properties in inorganic compounds. Mechanistic aspects of transition metal chemistry including substitution reactions, electron transfer reactions, rearrangement reactions, ligand reactions and inorganic photochemistry. Perquisite: CHEM 737. LEC

(NEW)
CHEM 830 Structure, Bonding and Spectroscopic Methods in Inorganic Chemistry (3). An introduction of quantum and group theories in relation to bonding and physicochemical properties of inorganic substances. Topics include vibrational and electronic spectroscopies, magnetism, and inorganic photochemistry. Perquisite: CHEM 730. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. We are also reorganizing the content in this course and two others (proposed new numbers CHEM 832 and 930) to make the courses more coherent and better organized.

CHANGE: DESCRIPTION, NUMBER, PREREQUISITE, & TITLE

(OLD)
CHEM 984 Physical Methods (3). A survey of modern spectroscopic and nonspectroscopic physical methods in chemistry with emphasis on methods applicable to inorganic compounds. For each method, a brief introduction to underlying theoretical principles will be given and examples of applications from the literature will be discussed in detail. Prerequisite: CHEM 982. LEC

(NEW)
CHEM 832 Inorganic Reaction Mechanisms and Catalysis (3). Mechanistic aspects of transition metal chemistry including substitution reactions, electron transfer reactions, rearrangement reactions, ligand reactions and inorganic photochemistry. Principles and applications of heterogeneous and homogeneous catalytic processes emphasizing catalysis at transition metal centers. Prerequisite: CHEM 730. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. We are also reorganizing the content in this course and two others (new course numbers CHEM 830 and 930) to make the courses more coherent and well-defined.

CHANGE: DESCRIPTION, NUMBER, PREREQUISITE, & TITLE

(OLD)
CHEM 986 Bioinorganic and Catalytic Chemistry (3). A survey of metalloproteins and metalloenzymes and their structures and functions, including recent advances in biomimetic modeling. Principles and applications of heterogeneous and homogeneous catalytic processes emphasizing catalysis at transition metal centers. LEC

(NEW)
CHEM 930 Bioinorganic Chemistry (3). A survey of metalloproteins and metalloenzymes, their structures and functions, including recent advances in biomimetic modeling, small molecule activation in biological systems, and related physical methods. Prerequisite: CHEM 832. LEC

JUSTIFICATION
We are undertaking a renumbering of our graduate courses to make the numbering systematic and logical. We are also reorganizing the content in this course and two others (new course numbers CHEM 830 and 832) to make them more coherent and well-defined. An appropriate prerequisite is added for this course.
CLASSICS

CHANGE: CREDIT HOURS, GRADING

(OLD)
GRK 899 Thesis (1-4). THE

(NEW)
GRK 899 Thesis (1-6). THE

JUSTIFICATION
To hold a GTAship a minimum of 6 hours of enrollment is required. We have occasionally had students teaching abroad with HWC who needed 6 hours of thesis to teach. This change will make enrollment easier in these cases, as well as allow us more flexibility in thesis hours earned. A glance at the catalog shows that most depts. have credit hours for 899 of 1-6 or even higher. Changing from P grading to S/U.

CHANGE: CREDIT HOURS, GRADING

(OLD)
LAT 899 Thesis (1-4). THE

(NEW)
LAT 899 Thesis (1-6). THE

JUSTIFICATION
To hold a GTAship a minimum of 6 hours of enrollment is required. We have occasionally had students teaching abroad with HWC who needed 6 hours of thesis to teach. This change will make enrollment easier in these cases, as well as allow us more flexibility in thesis hours earned. A glance at the catalog shows that most depts. have credit hours for 899 of 1-6 or even higher. Changing from P grading to S/U.

LINGUISTICS

CHANGE: DESCRIPTION AND TITLE

(OLD)
LING 712 Phonology I (3). This course is an introduction to phonological theory. It focuses on crucial phonological concepts such as underlying and surface representations, phoneme and allophone, contrast, alternation, neutralization, distinctive features, and syllable. It provides the basic skill set for phonological analysis, including UR selection, rule notation, rule ordering, and common phonological universals. It also touches on theory-building in phonology, with discussions on the external motivations for phonological grammar, how to lay out the predictions of a theoretical proposal, and how phonological predictions can be empirically tested. Prerequisite: LING 705. LEC

(NEW)
LING 712 Phonological Theory I (3). This is a survey course on modern phonological theory. It starts with the discussion of the conspiracy and duplication problems in rule-based phonology and works its way to Optimality Theory (OT). Topics in OT include its conceptual and empirical advantages over rule-based phonology, its potential problems and their possible remedies, the relevance of phonetics in OT constraints, correspondence theory, and how OT can be applied to prosodic phenomena such as stress and tone. It also focuses on theory-building in phonology, with discussions on the external motivations for phonological grammar, how to lay out the predictions of a theoretical proposal, and how phonological predictions can be empirically tested. The course is offered at the 300 and 700 levels, with additional assignments at the 700 level. Prerequisite: LING 705. LEC
JUSTIFICATION
Virtually all Linguistics courses are combined undergraduate/graduate courses. With the current rapid increase in the number of Linguistics majors, this no longer is a good solution. Linguistics is creating new ways to make sure that both undergraduate and graduate students receive instruction at the appropriate level. Phonology is the first area in which we are proposing changes. The change in course description reflects current developments in the field. The main innovation is that this introductory graduate course will now simultaneously serve as the second-level phonology course at the undergraduate level. The fact that undergraduates in this course will already have taken a basic course in phonology (LING 312) ensures that the undergraduates and graduates in this course are at comparable stages which makes it easier to teach the course and makes the course more rewarding for all students. The change in course title primarily reflects that this is an introductory course at the graduate level and a more advanced course at the undergraduate level. (CUSA approval will be sought for the accompanying undergraduate course LING 314).

MATHEMATICS

CHANGE: DESCRIPTION & TITLE

(OLD)
MATH 735 Introduction to Optimal Control Theory (3). An introduction to the mathematical methods of deterministic control theory is given by considering some specific examples and the general theory. The methods include dynamic programming, the calculus of variations, and Pontryagin’s maximum principle. Various problems of linear control systems, e.g., the linear regulator problem, are solved. Prerequisite: MATH 320 or equivalent. LEC

(NEW)
MATH 735 Optimal Control Theory (3). An examination of the mathematical methods of deterministic control theory is given by considering some specific examples and the general theory. The methods include dynamic programming, the calculus of variations, and Pontryagin’s maximum principle. Various problems of linear control systems, e.g., the linear regulator problem, are solved. Prerequisite: MATH 320 or equivalent. LEC

JUSTIFICATION
Change course title to more accurately reflect the contents of the course.

PHYSICS & ASTRONOMY

CHANGE: DESCRIPTION & PREREQUISITE

(OLD)
PHSX 717 Graduate Seminar (1). First year graduate students meet to survey research opportunities in the department and develop skills in giving oral presentations in physics and related areas. Prerequisite: None. Only one hour of PHSX 717 can count toward required hours for degree. Prerequisite: None. Only one hour of PHSX 717 can count toward required hours for degree. LEC

(NEW)
PHSX 717 Graduate Seminar (1). First year graduate students meet to survey research opportunities in the department and develop skills in giving oral presentations in physics and related areas. Students will also learn about topics in responsible scholarship that may include: the origin of ideas and the allocation of credit, the treatment of data, scientific misconduct, intellectual property and entrepreneurship, the researcher in society, collaborative research, mentor/trainee responsibilities, and safe practices. SEM
JUSTIFICATION
We are changing the course description in response to the College's responsible scholarship requirement.

3. Course deletions: CHEM 801, CHEM 803, CHEM 807, CHEM 811, and CHEM 966

CHEMISTRY

CHEM 801 Analytical Chemistry Colloquium (1). Review of important aspects of analytical chemistry not covered in the regular graduate courses. LEC

JUSTIFICATION
We are replacing five different colloquium courses in the various sub-fields of Chemistry with a single course (CHEM 810) which can be offered with different topics.

CHEM 803 Chemical Education Colloquium (1). Colloquia in various topics of current interest are presented by students, faculty, and visiting scholars. LEC

JUSTIFICATION
We are replacing five different colloquium courses in the various sub-fields of Chemistry with a single course (CHEM 810) which can be offered with different topics.

CHEM 807 Inorganic Chemistry Colloquium (0-1). Review of important aspects of inorganic chemistry not covered in the regular courses. LEC

JUSTIFICATION
We are replacing five different colloquium courses in the various sub-fields of Chemistry with a single course (CHEM 810) which can be offered with different topics.

CHEM 811 Organic Chemistry Colloquium (1). Credit on presentation of colloquium. LEC

JUSTIFICATION
We are replacing five different colloquium courses in the various sub-fields of Chemistry with a single course (CHEM 810) which can be offered with different topics.

CHEM 966 Physical Organic Chemistry II (3). A detailed consideration of the mechanistic features of some important classes of organic reactions. Discussions will include an examination of molecular orbital theory, linear free energy relationships, and acid-base catalysis. Prerequisite: CHEM 742 and one semester of physical chemistry. LEC

JUSTIFICATION
This course was the province of a single faculty member who has recently retired. There are no plans to teach this course in the foreseeable future.

B. Program Changes

Anthropology M.A. program change proposals (2)

This is a change request for the following degree or certificate program:

ANTH, M.A.

The requested changes to this degree or certificate program are:

Proposal 1:
Current Requirement: “Students must submit a thesis (preferably not more than 75 text pages in length) to their M.A. Committee. . . . Students who have performed independent research and have presented findings in the form of a refereed journal article or comparable scholarly work may petition their committee to use such work to fulfill the M.A. thesis requirement” (Graduate Program, page 6).

Proposed: Alternatives to the traditional thesis be allowed, in the form of a nonthesis research/internship paper or a nonthesis option. (Approved by faculty, December 8, 2010.)

Proposal 2:

Current Courses Requirement: All master's students are required to pass the four core courses: ANTH 701 History of Anthropology; ANTH 702 Current Archaeology; 703 Current Biological Anthropology; 704 Current Cultural Anthropology

Proposed: Incoming master's students with a solid grounding in anthropology should, with consent of their advisor, be required to take three of the core courses. Incoming master's students who lack substantial training in anthropology (bachelor's degree or similar training) should be required to take four core courses. Add a new core course: ANTH 706 Current Linguistic Anthropology.

The change(s) to this program will first take effect:

Fall 2011

The reasons given for this change are these:

Proposal 1:

The decision to offer a non-thesis option responds to the needs of students with different capabilities and aspirations. By providing these three options, we expect to facilitate the graduation of our M.A. students in a more timely manner and promote their goals, whether in or outside the academy.

The thesis and published paper options are often considered equivalents. Some students come to us with publications in hand; some pursue publication of original research in the program. Those who demonstrate this level of advanced training, we believe, should be advanced into PhD programs without the unnecessary additional demonstration of writing a thesis. Not only is the peer reviewed publication option equally credible; it is a more efficient demonstration of a student's abilities.

For those who would otherwise linger over their unwritten theses, or who have no desire to pursue a Ph.D., they can take the additional hours and leave KU with a terminal M.A. in search of employment or other academic degrees elsewhere.

Proposal 2:

These changes are designed to improve time to degree by reducing the number of core courses students must take. The addition of a new core course in linguistic anthropology reflects the department's commitment to the four-field approach to anthropology, and the addition of a second linguistic anthropologist.
The M.A. program is a general curriculum for students who wish to enter the Ph.D. program in anthropology or who plan to pursue graduate studies only to the M.A. level. Formal requirements for the M.A. include:

1. Completion of 30 credit hours of graduate work in anthropology and related disciplines;
2. Effective Fall 2011, incoming graduate students who lack substantial training in anthropology (bachelor’s degree or similar training) are required to take four of the following core courses: ANTH 701, ANTH 702, ANTH 703, ANTH 704, and ANTH 706. Incoming M.A. students with a solid grounding in anthropology, with consent of their advisor, are required to take only three (3) core courses.
3. Completion of the subdiscipline requirements;
4. Completion of the M.A. thesis or a non-thesis option; and
5. Passing the final M.A. examination.

1. Thesis Option

Students must submit a thesis (preferably not more than 75 text pages in length) to their M.A. committee. If the committee approves the thesis for defense, the chair then notifies the graduate coordinator to schedule the Master’s Examination. The M.A. examination takes the form of a public oral comprehensive examination of which presentation and defense of the thesis or its alternative are two parts, and an exam over coursework in anthropology constitutes the remainder.

2. Non-thesis Options (effective Fall 2011)

Nonthesis Research Paper Options:

a) Students may produce a significant paper accepted by a journal, edited book or monograph, or other scholarly venue, such as a documentary or museum exhibit. This option must involve anthropological research, either conducted independently or as a significant member of a research team. Co-authorship is allowed, but only if the student has primary responsibility for: 1) conceiving the manuscript or other product; 2) collecting new data or analyzing previously collected data; and 3) writing the manuscript. Students must publically present the results of their research and pass an oral comprehensive exam.

OR

b) Students may submit an internship report. Internships may vary in form. They may involve placement with a public or private agency, organization, or firm. The student will have a clearly defined role under the supervision of both the faculty advisor and an identified staff person in the external entity. The internship will normally last for one semester or one summer; it will involve a research project conceived by the student in conjunction with the advisory committee and the staff of the agency. Some internships, particularly in archaeology, may not involve formal placement with an external agency, but rather research done in conjunction with field research or lab analysis. Students choosing this option must complete both ANTH 897 and ANTH 898, and submit an internship proposal for approval to their advisory committee. They must publically present the results of their internship in an oral comprehensive exam that will include a discussion of the applied dimension of their work and its benefit to the public and the discipline.


Students choosing this option must take 36 credit hours, of which at least 30 must be in formal course work. Not more than 6 credit hours can be graduate research hours (ANTH 889-899). Students must pass a final comprehensive oral exam, open to the public, over their coursework in anthropology.

Students who complete Options 1 or 2 are eligible for admission to the doctoral program in anthropology. Option 3 results in a terminal master’s degree and those who elect this option cannot be admitted to the doctoral program.
C. Information Item

Deletion of Gerontology Graduate Certificate

Graduate Certificate Renewal

Certificate program title: Gerontology Certificate
Department or center name: Gerontology Center
Program coordinator: David Ekerdt
Year Certificate program created: Graduate Concentration in Gerontology (1984); coverted to Graduate Certificate in Gerontology in 2004
Date of last curricular review: 2004

Requesting certificate renewal? Please check one of the following:
Yes _____ (if yes, provide the data and signatures requested below)
No __X__ (if no, collect the signatures requested below) Due to low demand

Number of certificates awarded in last 7 years (OIRP data): 6, none since 2007
Number of students currently enrolled (OIRP data): 1 and 1-2 inquiries. We presume these individuals can finish if inquires enroll soon.

III. REPORT OF THE COMMITTEE ON UNDERGRADUATE STUDIES & ADVISING (CUSA)
Submitted by Susan McGee, Presented by Donna Tucker, Chair

A. Curricular Changes for Approval

VISUAL ART

CHANGE: COURSE DESCRIPTION, PREREQUISITE, TITLE

(OLD) Individual studio activity; capstone experience. Course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters; a maximum of nine hours can apply toward the bachelor's degree. Prerequisite: ART 102, ART 103, and ART 104; and twelve hours of Textiles/Fibers courses, or permission of instructor. IND

PRNT 599 INDIVIDUAL STUDIES IN PRINTMAKING 1-6 U
(NEW) Individual studio activity; capstone experience. Course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters; a maximum of nine hours may apply toward the bachelor's degree. Prerequisite: ART 102, ART 103, and ART 104; and twelve hours of Printmaking courses, or permission of instructor. IND
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<td>TD 599</td>
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<td>1-6 U</td>
<td>Individual studio activity; capstone experience. Course content to be determined by the student under supervision of a faculty member. May be repeated for credit in subsequent semesters; a maximum of nine hours can apply toward the bachelor's degree. Prerequisite: ART 102, ART 103, and ART 104; and twelve hours of Textiles/Fibers courses, or permission of instructor. IND</td>
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