



Graduate School
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Minutes of the Graduate Council
 December 5, 2006

As approved by the Graduate Council, February 6, 2007

Members present: K. Al-Khatib, K. Boone, T. Easton, G. Eiselein (proxy for D. Smit), J. Fallin, B. Fees, D. Gruenbacher, M. Hancock, M. Herman, C. Holcomb (proxy for D. Meyer), S. Hutchinson, M. Kaff, S. Kovar, V. Krstic, D. Margolies (proxy for J. Nechols), T. Miller, J. Neill, D. Olds, M. O'Shea

Members absent: K. Adhikari, S. Bossmann, J. Faubion, J. Keller, K. Kershner, A. Knackendoffel, K. Kramer, R. Schaeffer, B. Schenck-Hamlin, S. Smethers, J.S. Smith, D. Vruwink (proxy for J. Katz), P. Wangemann, M. Wilkerson, M. Zolkiewski

Graduate School staff present: J. Guikema, C. Polson, S. Schlender, C. Shanklin, R. Trewyn

Guests: L. Ewanow, D. Youngman (library liaison)

1) Opening remarks

2) Minutes. The minutes of the **November 7, 2006** meeting were approved as presented.

3) Graduate School Actions and Announcements

a) Appointments for Graduate Faculty Membership

Name	Position	Department/Program by Graduate School	Date approved
Theresa L. Selfa	Assistant Professor	Sociology, Anthropology and Social Work	10/23/06
John R. Jaeger	Assistant Professor	Animal Science & Industry	10/27/06
Randy R. Price	Assistant Professor	Biological & Agricultural Engineering	11/09/06
Derek Hoff	Assistant Professor	History	11/10/06
Heather L. McCrea	Assistant Professor	History	11/10/06

b) Non-Graduate Faculty to teach Graduate Courses (Emergency Approval)

Name	Position	Department/Program by Graduate School	Date approved
Carolyn J. Kelly	Instructor	English	11/10/06

4) Academic Affairs Committee

a) The Academic Affairs Committee moved that the following faculty members be approved for Graduate Faculty Membership, Membership and Certification, Certification Only, Certification Only Special Requests and Non-Graduate to teach Graduate Courses (one-year approval). The motion passed.

i) **for MEMBERSHIP ONLY**

Barbara Anderson	Assistant Professor	Apparel, Textiles and Interior Design
Johnathon Holman	Assistant Professor	Agronomy
Michael Krysko	Assistant Professor	History
Michael Wesch	Assistant Professor	Sociology, Anthropology and Social Work

ii) **for MEMBERSHIP AND CERTIFICATION**

Alexander Beeser	Assistant Professor	Biology
Raymond Cloyd	Associate Professor	Entomology
Maria Soledad Ferrer	Assistant Professor	Clinical Sciences
Jeremy Marshall	Assistant Professor	Entomology
Theodore J. Morgan	Assistant Professor	Biology
Stefan A. Romanoschi	Associate Professor	Civil Engineering
Anna E. Whitfield	Assistant Professor	Plant Pathology

iii) **for CERTIFICATION ONLY**

Louise A. Breen	Associate Professor	History
David Graff	Associate Professor	History
Bonnie Lynn-Sherow	Associate Professor	History
Charles Sanders	Associate Professor	History
David Stone	Associate Professor	History

iv) ***for CERTIFICATION ONLY SPECIAL REQUESTS**

Fred Burrack	Assistant Professor	Music Education
Iris Totten	Assistant Professor	Geology

*These requests were made by the Curriculum and Instruction graduate program.

v) **Non-Graduate Faculty to teach Graduate Courses (One-year approval)**

Teresa Johnson	Instructor	Art
Jeffrey C. Smith	Instructor	Art

b) **Course and curriculum issues:** The Academic Affairs Committee moved to approve course and curriculum changes, drops and additions. The motion passed.

i) **CHANGE**

Current Course Description	Proposed Course Description
<p>AGRON 762. Range Grasses. (2) I, in even years. Field and laboratory study of range and pasture plants, with special emphasis on grasses and their distinguishing characteristics. One hour rec. and two hours lab a week. Pr.: BIOL 198 or 210.</p>	<p>AGRON 762. Range Grasses. (2) I, in even years. Field and laboratory study of range and pasture plants, with special emphasis on grasses and their distinguishing characteristics. One hour rec. and two hours lab a week.</p>
<p>AGRON 820. Plant Water Relations. (3) II. Properties of water, terminology in plant and soil water relations, environmental aspects of plant-water relations, soils as a water reservoir, water as a plant component, water movement through the plant, special aspects of transpiration, development and significance of internal water deficits, drought resistance mechanisms, water consumption by crop plants. Pr.: AGRON 220 and 305, BIOL 500.</p>	<p>AGRON 820. Plant Water Relations. (3) II. Properties of water, terminology in plant and soil water relations, environmental aspects of plant-water relations, soils as a water reservoir, water as a plant component, water movement through the plant, special aspects of transpiration, development and significance of internal water deficits, drought resistance mechanisms, water consumption by crop plants. <u>Rec. Pr.: BIOL 500.</u></p>
<p>AGRON 830. Quantitative Genetics in Relation to Plant Breeding. (3) I, in odd years. Application of statistical principles to biological populations in relation to gene and zygotic frequencies, mating systems, and effects of mutation, migration, and selection on equilibrium populations; partitioning of genetic variance, concept and methods of estimating heritability, theoretical basis of heterosis, diallel cross and combining ability, genotype by environment interaction, genetic advance under selection, models on phenotypic expression of various crops; genetics of autopolypoids. Pr.: AGRON 770; STAT 730, 704, and 705 or equiv.</p>	<p>AGRON 830. Quantitative Genetics in Relation to Plant Breeding. (3) I, in odd years. Application of statistical principles to biological populations in relation to gene and zygotic frequencies, mating systems, and effects of mutation, migration, and selection on equilibrium populations; partitioning of genetic variance, concept and methods of estimating heritability, theoretical basis of heterosis, diallel cross and combining ability, genotype by environment interaction, genetic advance under selection, models on phenotypic expression of various crops; genetics of autopolypoids. <u>Rec. Pr.: AGRON 770, STAT 704, and STAT 705.</u></p>
<p>AGRON 893. Agricultural Simulation Modeling. (4) I, in even years. Techniques for developing and testing computer simulation models for research, management, and design applications in agriculture. Three lectures and one three-hour work session per week. Pr.: MATH 211, STAT 705, and AGRON 455 or equivalent.</p>	<p>AGRON 893. Agricultural Simulation Modeling. (4) I, in even years. Techniques for developing and testing computer simulation models for research, management, and design applications in agriculture. Three lectures and one three-hour work session per week. <u>Pr.: STAT 705.</u> <u>Rec. Pr.: MATH 211 and AGRON 455.</u></p>

Current Course Description	Proposed Course Description
<p>ASI 685. Silage Technology. (1) I. A study of silage fermentation, nutrient conservation, aerobic deterioration process; factors affecting silage quality; and chemical analyses used to evaluate silage. Discussion of techniques used in silage research and assigned readings within the silage literature. Three hours lec. a week for five weeks. Pr.: ASI 680.</p>	<p>ASI 685. <u>Stored Forage Systems for Ruminant Animals.</u> (1) II. A study of <u>nutrient conservation in various stored forage systems including storage facilities and equipment, nutrient loss, aerobic deterioration, chemical and physical analysis.</u> <u>Discussions will also include the impact of stored forage systems on forage quality and the subsequent effects on digestion and utilization in ruminant animals.</u> Three hours lec. a week for five weeks. Pr. ASI 680.</p>
<p>ASI 802 Gametes, Fertilization and Pregnancy in Farm Animals. (3) I, in odd years. Basic mechanisms of gamete production and fertilization, embryonic and fetal development, and the establishment, maintenance and termination of pregnancy. Two hours lec. and three hours lab a week. Pr.: BIOCH 521.</p>	<p>ASI 802 Gametes, Embryos, and Stem Cells in Farm Animals. (2) I, in odd years. <u>A study of gametes, embryos, pregnancy, and stem cells in farm species including supporting information from laboratory species and humans. Emphasis will be on the regulation of stem cells, gametes, and embryos and on the conceptus-maternal interactions to establish and maintain pregnancy and program conceptus and postnatal development.</u> Two hours lec. a week. Pr.: BIOCH 521.</p>
<p>FDSCI 690. Principles of HACCP. (2) I. A comprehensive study of the Hazard Analysis and Critical Control Point System and its application in the food industry. Two hours lec. a week. Recommended pr.: BIOL 198 and CHM 110. <u>Same as ASI 690.</u></p>	<p>FDSCI 690. Principles of HACCP. (2) I. A comprehensive study of the Hazard Analysis and Critical Control Point System and its application in the food industry. Two hours lec. a week. Rec. Pr.: BIOL 198 and CHM 110.</p>
<p>FDSCI 791. Advanced Application of HACCP Principles. (3) II. Evaluation of control parameters and methodology at critical control points, validating and auditing the effectiveness of critical control points, critical limits, monitoring tools, corrective action procedures, recordkeeping and verification procedures in addressing biological, chemical, and physical hazards that may be present in food products. Three hours lec. a week. Pr.: ASI 690. Recommended pr.: BIOL 455. <u>Same as ASI 791.</u></p>	<p>FDSCI 791. Advanced Application of HACCP Principles. (3) II. Evaluation of control parameters and methodology at critical control points, validating and auditing the effectiveness of critical control points, critical limits, monitoring tools, corrective action procedures, recordkeeping and verification procedures in addressing biological, chemical, and physical hazards that may be present in food products. Three hours lec. a week. Pr.: FDSCI 690. Recommended pr.: BIOL 455.</p>
<p>GRSC 902. Carbohydrates in Food. (2) I, in odd years. Structure and properties of food carbohydrates, including sugars, oligosaccharides, and polysaccharides, and methods of their modification and analysis. Rec. Pr.: CHEM 350 or BIOCH 521.</p>	<p>GRSC 902. Carbohydrates in Food. (2) II, in odd years. Structure and properties of food carbohydrates, including sugars, oligosaccharides, and polysaccharides, and methods of their modification and analysis. Rec. Pr.: CHEM 350 or BIOCH 521.</p>

Current Course Description	Proposed Course Description
<p>PLPTH 730. Plant Nematology. (2) II, in even years. An introduction to the morphology, taxonomy, and ecology of phytoparasitic and free-living nematodes found in plants, soil, and fresh water. Emphasis is on the identification and control of plant parasitic nematodes and on lab techniques used in their study. The course will meet for half of the semester. Two hrs. lec., one 4-hr lab a week. Pr.: PLPTH 500.</p>	<p>PLPTH 730. Plant Nematology. (3) II, in even years. An introduction to the morphology, taxonomy, and ecology of phytoparasitic and free-living nematodes found in plants, soil, and fresh water. Emphasis is on the identification and control of plant parasitic nematodes and on lab techniques used in their study. Two hrs. lec., one <u>2</u>-hr lab a week. Pr.: PLPTH 500.</p>
<p>PLPTH 845. Plant Pathogenic Fungi. (2) I, in even years. The isolation, handling, storage, inoculation, terminology and taxonomy of fungal pathogens of plants. Particular attention will be given to techniques used to study fungi and to the genus and species concepts for important plant pathogenic fungal genera. One hr lec. and one 3-hr lab a week. Pr.: PLPTH 500 and BIOL 604.</p>	<p>PLPTH 845. Plant Pathogenic Fungi. (3) I, in even years. The isolation, handling, storage, inoculation, terminology and taxonomy of fungal pathogens of plants. Particular attention will be given to techniques used to study fungi and to the genus and species concepts for important plant pathogenic fungal genera. <u>Two</u> hr lec., and one 3-hr lab a week. Pr.: PLPTH 500 and BIOL 604.</p>
<p>KIN 600. Exercise Psychology. (3) II. An examination of the theory and research related to the biophysical antecedents of exercise participation. Topics will include exercise motivation, models of exercise perception and intervention strategies used to increase exercise participation. Pr.: a grade of C or higher in KIN 310, 340 and 345.</p>	<p>KIN 600. Psychology of Physical Activity. (3) II. An examination of theory and research related to <u>physical activity</u> participation. Topics will include: mental health effects of exercise, behavior change theories applied to physical activity, physical activity correlates and intervention strategies used to increase and maintain physical activity participation. Pr.: a grade of C or higher in KIN 310, 340 and 345.</p>
<p>PHYS 651. Introduction to Optics. (3) I, in alternate years. Introduction to modern concepts in optics: electromagnetic waves, propagation of light through media, geometrical optics of lenses and mirrors, interference, coherence, Fraunhofer and Fresnel diffractions. Three hours of lec. a week. Pr.: PHYS 214.</p>	<p>PHYS 651. Introduction to Optics. (4) I, in alternate years. Introduction to modern concepts in optics: electromagnetic waves, propagation of light through media, geometrical optics of lenses, mirrors <u>and simple optical instruments,</u> <u>polarization,</u> interference, coherence, and diffractions. <u>Taught in a studio format; three hours of lecture and two hours of laboratory per week.</u> Pr.: PHYS 214.</p>

Current Course Description	Proposed Course Description
<p>GENBA 880. Business Strategy. (3) II. Through case analysis, a study of the functions, responsibilities, and point of view of general management and the problems which affect the total organization's characters and success. The formulation and application of corporate and business strategies, specifically, analysis of interrelationships between the external and internal environments, choice of purpose, molding of organizational character, definition of what needs to be done, and motivation of resources for goal attainment. Pr.: ACCTG 860, FINAN 860, MANGT 860 and MKTG 860.</p>	<p>GENBA 880. Business Strategy. (3) I. Through case analysis, a study of the functions, responsibilities, and point of view of general management and the problems which affect the total organization's characters and success. The formulation and application of corporate and business strategies, specifically, analysis of interrelationships between the external and internal environments, choice of purpose, molding of organizational character, definition of what needs to be done, and motivation of resources for goal attainment. Pr.: <u>ACCTG 810, FINAN 815, MKTG 810, MANGT 810, MANGT 820, MANGT 830, ECON 815, and STAT 702.</u></p>
<p>MANGT 860. Management of Legal, Ethical, and Public Policy Issues. (3) I, S. A study of the influence of political, economic, legal and social factors on contemporary business organizations. The course requires students to integrate concepts from core courses in order to formulate and implement strategic and ethical responses to issues posed by these environmental factors. Pr.: ACCTG 810, FINAN 815, MKTIB 810, MANGT 810, MANGT 820, MANGT 830, ECON 815, and STAT 702.</p>	<p>MANGT 860. Management of Legal, Ethical, and Public Policy Issues. (3) <u>II</u>, S. A study of the influence of political, economic, legal and social factors on contemporary business organizations. The course requires students to integrate concepts from core courses in order to formulate and implement strategic and ethical responses to issues posed by these environmental factors. Pr.: ACCTG 810, FINAN 815, MKTG 810, MANGT 810, MANGT 820, MANGT 830, ECON 815, and STAT 702.</p>
<p>EDCI 816. Approaches to Reading Instruction. (3) On sufficient demand. A critical study of approaches, materials, and methods for effective reading instruction. Pr.: Teaching experience.</p>	<p>EDCI 816. Approaches to Reading Instruction. (3) <u>I. A foundational study of research-based approaches, materials, and methods for effective K-12 reading instruction.</u> Pr.: Teaching experience.</p>
<p>EDCI 845. Advanced Reading Instruction. (3) On sufficient demand. A study and evaluation of selected theories, programs, practices, and materials, K-12, emphasizing current trends, issues, and problems. Pr.: EDCI 816.</p>	<p>EDCI 818. Theoretical Models of Reading. (3). <u>II, in odd years. Advanced study of reading with an emphasis on foundational theories and seminal research studies reflecting the complexity of the reading process.</u> Pr.: <u>Teaching experience.</u></p>
<p>EDCI 840. Assessment in Reading/Language Arts. (3) On sufficient demand. A survey of the principles, procedures, instruments, and programs for assessing reading/language arts achievement in the classroom and resource room. Special attention to less-skilled readers. Pr.: EDEL 816 or EDCEP 715 and student teaching.</p>	<p>EDCI 840. Literacy Assessment. (3) <u>I, in odd years. An overview of the collection, analysis, and interpretation of data from formal and informal assessment methods and instruments to enhance literacy instruction by documenting growth and literacy development.</u> Pr.: EDCI 816.</p>

Current Course Description	Proposed Course Description
<p>EDCI 841. Individualized Reading and Writing Instruction. (3) On sufficient demand. Advanced study of the teaching of reading language arts, with special attention on adjusting curriculum and instruction to meet the individual needs of K-12 students. Pr.: EDCI 816 or EDCI 840, and student teaching.</p>	<p>EDCI 841. Supporting Struggling Readers. (3) <u>II, in even years. Explores the identities of “struggling readers” across grade levels to address the importance of interest, motivation, gender, culture, and language on learning to read with an emphasis on differentiated instruction to support literacy development and lifelong reading. Pr.: Teaching experience.</u></p>
<p>EDCI 847. Clinical Practicum in Reading. (3) S. Supervised experience in diagnosing and teaching K-12 students with reading problems. Pr.: EDCI 840 and 841.</p>	<p>EDCI 945. Clinical Practicum in Reading. (3) <u>S. Supervised K-12 practicum with candidates working with individuals and small groups of readers using a wide range of evidence-based instructional practices, approaches, and curricular materials. Pr.: EDCI 816, 818, 840, and 841. Prior or concurrent enrollment in EDCI 930.</u></p>
<p>EDCI 848. Organization and Administration of Reading Programs. (3) On sufficient demand. An investigation of several topics of special interest to educators responsible for developing a total reading program, K-12, with special attention to the remedial reading program. Pr.: EDCI 816.</p>	<p>EDCI 930. Leadership in Literacy. (3) <u>S, in even years. A seminar to prepare reading professionals to work as literacy leaders, advocates, and coaches to support district and school literacy professional development. Pr.: Teaching experience.</u></p>
<p>ARE 690. Senior Project. (3) I, II. Student working individually with laboratory support will prepare and present a project of appropriate scope and complexity with emphasis on structural, mechanical, acoustical, electrical, and lighting requirements. Nine hours lab a week. Pr.: ARE 524, 528, 590; and CE 522. Must be taken concurrently with ARE 539 Architectural Engineering Management.</p>	<p>ARE 690. Senior Project. (3) I, II. Student working individually with laboratory support will prepare and present a project of appropriate scope and complexity with emphasis on structural, mechanical, acoustical, electrical, and lighting requirements. Nine hours lab a week. Pr.: ARE 590 and CE 522. Must be taken concurrently with ARE 539.</p>
<p>ARE 731. Advanced Lighting Design. (3) II. Lighting modeling and analysis used in lighting design practice, and computer-assisted lighting analysis. Two hours rec. and two hours lab a week. Pr.: ARE 532.</p>	<p>ARE 731. Advanced Lighting Design. (3) II. Lighting modeling and analysis used in lighting design practice, and computer-assisted lighting analysis. Two hours rec. and two hours lab a week. Pr.: ARE 532 and 533.</p>
<p>ARE 623. Timber Structures. (3) II. Analysis and design of timber structures including dimension lumber, glu-lam members, and engineered wood products. three hours rec. a week. Pr.: CE 537 and ARE 522.</p>	<p>ARE 723. Timber Structures. (3) II. Analysis and design of timber structures including dimension lumber, glu-lam members, and engineered wood products. Three hours rec. a week. Pr.: CE 537 and ARE 522.</p>

Current Course Description	Proposed Course Description
<p>CIS 625. Parallel Programming. (3) I. Basic concepts of concurrent and distributed programming; parallel computing architectures; real-time programming; parallel simulation; fault-tolerant programming; partitioning, mapping, and granularity of parallel programming such as communication systems; grid, N-body simulation, and matrix problems; and embedded systems control. Pr.: CIS 501.</p>	<p>CIS 625. Concurrent Software Systems. (3) I. <u>Architecture, design, modeling, implementation, and verification of concurrent, parallel, and distributed software; aspects such as real-time programming, parallel simulation; fault-tolerant programming; grid computing, embedded systems control.</u> Pr.: CIS 501.</p>
<p>CIS 640 Software Testing Techniques. (3) II, in alternate years. Survey of software testing methodologies; evaluation of software testing strategies; experience in a variety of software testing practices. Pr. 540.</p>	<p>CIS 640 Software Testing Techniques. (3) II. Survey of software testing methodologies; evaluation of software testing strategies; experience in a variety of software testing practices. <u>CIS 501.</u></p>
<p>CIS 748. Software Management. (3) Topics related to the management of software, including organization, project planning, process models, life cycle models, TQM, software quality assurance, cost estimation, configuration management. Pr.: CIS 740.</p>	<p>CIS 748. Advanced Software Management. (3) <u>II, S.</u> Topics related to the management of software, including organization, project planning, process models, life cycle models, TQM, software quality assurance, cost estimation, configuration management. Pr.: CIS 740.</p>
<p>EECE 725. Integrated Circuit Devices and Processes. (3) II. An introduction to integrated circuit fabrication processes including oxidation, diffusion, masking, etching, process monitoring, and device characterization. Design of bipolar and MOS circuits through laboratory experiments and computer simulations. Two hours rec. and three hours lab a week. Pr.: EECE 696 and CHE 350.</p>	<p>EECE 725. Integrated Circuit Devices and Processes. (3) II. Integrated circuit fabrication processes including oxidation, diffusion, <u>ion implantation, lithography,</u> etching, <u>crystal growth,</u> process monitoring, and device characterization. Design of <u>discrete and IC devices</u> through laboratory experiments and computer simulations. Two hours rec. and three hours lab a week. Pr.: <u>EECE 525</u> and CHE 350.</p>
<p>IMSE 889 Applied Methods in Industrial Engineering. (1). I, H, S. This class requires students to have at least 6 weeks of full-time work experience in a job related to Industrial Engineering. The course can be taken only once. Pr. Approval of major professor and department head.</p>	<p>IMSE 889 Applied Methods in Industrial Engineering I. (1) <u>S.</u> This class requires students to have at least 6 weeks of full-time work experience in a job related to Industrial Engineering. This course can be taken only once by a graduate student. Pr. Approval of major professor and department head.</p>
<p>HN 741. Consumer Response Evaluation. (3) II. Odd years. Evaluation of consumer attitudes and perceptions of products to provide quantitative and qualitative information for research guidance. Design and implementation of consumer questionnaires and development of guides for focus groups and interviews. Two hours lecture and four hours lab a week. Pr.: STAT 320 or 330 or 340.</p>	<p>HN 841. Consumer Response Evaluation. (3) II <u>in even</u> years. Evaluation of consumer attitudes and perceptions of products to provide quantitative and qualitative information for research guidance. Design and implementation of consumer questionnaires and development of guides for focus groups and interviews. Two hours lecture and four hours lab a week. Pr.: <u>HN 701.</u></p>

CURRICULUM CHANGES:

M.S. Agricultural Economics (Agribusiness Economics Option):

FROM :

Agribusiness Economics
 ECON 720 Microeconomics Theory 3
 AGECE 890 Adv Food & Agribusiness Mgmt 3
 AGECE 880 Agribusiness Industry Structures 3
 FINAN 815 Managerial Finance I 3

TO:

Agribusiness Economics
 ECON 720 Microeconomics Theory 3
 AGECE 890 Adv Food & Agribusiness Mgmt 3
 AGECE 880 Agribusiness Industry Structures 3
 FINAN 815 Managerial Finance I 3

~~Select one from either~~

~~AGECE 805 Agricultural Marketing or
 AGECE 823 Agricultural Production 3~~

Agribusiness Economics Total Credit Hours	15	Agribusiness Economics Total Credit Hours	<u>12</u>
Total Coursework Hours	27	Total Coursework Hours	<u>27</u>
Total Degree Credit Hours	33	Total Degree Credit Hours	<u>30</u>

Ph.D. Agricultural Economics:

FROM:

STAT 770 Theory of Statistics I 3

TO:

Choose 3 credit hours (1 course) from:

STAT 770 Theory of Statistics I 3
STAT 771 Theory of Statistics II 3
ECON 890 Time Series Econometrics 3
ECON 890 Microeconomics Panel
 Data Econometrics 3

Doctor of Philosophy in Curriculum & Instruction:

<p>FROM: A minimum of 90 semester hours beyond the baccalaureate degree is required, including the following. (Up to 30 graduate hours earned as part of a master's degree may be used to satisfy the following requirements, with the approval of the supervisory committee and Graduate School.)</p>	<p>TO: A minimum of 90 semester hours beyond the baccalaureate degree is required, including approved transfer credit. <u>Up to 30 hours of coursework may be accepted from a master's degree and applied to the PhD program with the approval of the supervisory committee. The nature of the courses and the length of time since master's degree completion will be considered in accepting coursework within the guidelines of the Graduate School.</u></p>
<p>Area of Emphasis (51 hours)</p>	<p>Area of Emphasis (<u>45</u> hours)</p>
<p>Includes courses in the student's area of specialty and any minor or elective area.</p>	<p>Includes courses in the student's area of specialty and any minor or elective area.</p>
	<p><u>Foundations of Education</u> (3 hours)</p>
	<p><u>EDCI 886 Seminar: History/Philosophy of Education</u></p>
	<p><u>Or a foundations course approved by the supervisory committee.</u></p>
<p>Research Courses (9 hours)</p>	<p>Research Courses (<u>12</u> hours)</p>
<p>Includes research courses concerning methodology consistent with that required for the dissertation. Courses typically used to meet research expectations include:</p>	<p><u>EDCEP 816 Research Methods or its equivalent is considered a prerequisite for the 12 hours of research courses in the PhD program.</u></p>
<p>EDCEP 816 Research Methods</p>	<p><u>Required Research Courses</u> (9 hours)</p>
<p>EDCEP 817 Statistical Methods in Education</p>	<p>EDCEP 817 Statistical Methods in Education</p>
<p>EDCEP 917 Experimental Design in Educational Research</p>	<p>EDCEP 917 Experimental Design in Educational Research</p>
	<p>EDADL 838 Qualitative Research in Education</p>
	<p><u>Elective Research Course</u> (3 hours)</p>
	<p>EDCEP 819 Survey Research</p>
<p></p>	<p>EDADL 986 Seminar/Advanced Qualitative Methods</p>
<p></p>	<p><u>Or any other research course taken from other disciplines at KSU and approved by the supervisory committee.</u></p>
<p>Dissertation Research (30 hours)</p>	<p>Dissertation Research (30 hours)</p>
<p>EDCI 999 Doctoral Research</p>	<p>EDCI 999 Doctoral Research</p>
<p>TOTAL: 90 hours</p>	<p>TOTAL: 90 hours</p>

Reading Specialist Endorsement:

CURRENT CURRICULUM		PROPOSED CURRICULUM	
<i>Required Courses</i> (12 hours)		<i>Required Courses</i> (15 hours)	
a) EDCI 816 Approaches to Reading Instruction	3	EDCI 816 Approaches to Reading Instruction	3
b) EDCI 840 Assessment in Reading/Language Arts	3	EDCI 818 Theoretical Models of Reading	3
c) EDCI 841 Individualized Reading and Writing Instruction	3	EDCI 840 Literacy Assessment	3
d) EDCI 847 Clinical Practicum in Reading	3	EDCI 841 Supporting Struggling Readers	3
		EDCI 930 Leadership in Literacy	3
<i>Elective Course</i> (3 hours)			
a) EDCI 715 Reading in the Content Areas	3	<i>Required Practicum</i> (3 hours)	
b) EDCI 756 Tradebooks Across the Curriculum	3	EDCI 945 Clinical Practicum in Reading	3
c) EDEL 758 Reading/Writing Connections	3		
d) EDCI 820 Contemporary Issues in Language Arts	3	Additional Requirements:	
e) EDCI 878 The Language Arts Curriculum	3	After completing the required courses and practicum, the applicant must fulfill these additional requirements to obtain a conditional reading specialist license.	
		1. Hold a valid professional teaching license	
		2. Present a score of 560 or above on the Praxis II exam for the Reading Specialist (test number 0300).	
		3. Hold a masters degree (It is permitted but not necessary to include the required courses as part of the masters degree.)	
		Required Internship (4 hours)	
		To be eligible to take the internship, the applicant must first complete the required courses and practicum and complete the additional requirements to obtain a conditional reading specialist license. Once the conditional reading specialist license is obtained, the applicant must enroll in 2 hours of internship per semester for one year as a full-time employee.	
		EDCI 975 Internship in Reading	4
TOTAL		TOTAL	
	15		22

ii)

DROP

ASI 690. Principles of HACCP. (2) I. A comprehensive study of the Hazard Analysis and Critical Control Point System and its application in the food industry. Two hours lec. a week. Recommended pr.: BIOL 198 and CHM 110. Same as FDSCI 690.

ASI 791. Advanced Application of HACCP Principles. (3) II. Evaluation of control parameters and methodology at critical control points, validating and auditing the effectiveness of critical control points, critical limits, monitoring tools, corrective action procedures, recordkeeping and verification procedures in addressing biological, chemical, and physical hazards that may be present in food products. Three hours lec. a week. Pr.: ASI 690. Recommended pr.: BIOL 455.

BIOL 862. Presentations in Ecology. (1) II. A course on presentation of professional seminars which includes instructional information, preparation and delivery of a formal seminar, and critique of seminars.

EDCI 717. Corrective Reading Instruction. (1-3) On sufficient demand. Supervised tutoring of students with reading difficulties. Not open to students with credit in EDCI 847. Pr.: EDEL 585, EDSEC 586, or EDSEC 582.

EDCI 825. Creative Language Expression. (3) On sufficient demand. Developing experiences in creative expression as part of the K-12 English language arts program; role of the arts in fostering creative language expression, strategies for teaching and evaluating creative writing and dramatic arts. Pr.: Teaching experience.

EDCI 846. Diagnosis and Treatment of Reading Disabilities. (3-4) On sufficient demand. A systematic study of the causes of K-12 reading problems, the use and interpretation of diagnostic instruments and procedures, and special materials and methods of remedial instruction. Includes diagnosis of a student with a reading problem. Pr.: EDCI 816.

CIS 644. Object Oriented Design and Development. (3) Object models, concepts of classes and objects, dynamic models, comparison of design methods, relationship to object-oriented languages, tools for design and program construction, design and prototype project. Pr.: CIS 501.

iii)

NEW

BIOL 863. Professional Skills in Biology. (3) II. An introduction for new graduate students in the mechanics of becoming a scientist and professional biologist. The course includes presentation of professional seminars, grant proposal writing and reviewing, manuscript preparation and submission, interviewing for jobs, teaching skills, effective communication of scientific data in graphs and tables, and other topics.

SPCH 756. Practicum in Conflict. (3) I, II S. This course provides a supervised opportunity to apply theoretical information into diverse conflict settings. Students will identify, conceptualize, implement, and/or test conflict and communication theories and strategies by analyzing and/or developing training/evaluation materials.

ASI 600. Applied Animal Biotechnology. (2) II. Emphasis will be placed on the current and future of animals in biotechnology related to food production as well as human medicine applications. Rec. Pr.: Senior standing, BIOCH 521 and ASI 500.

FDSCI 730. A Multidisciplinary Overview of Food Safety and Security. (2) I, II, S. Multidisciplinary food safety and security perspectives provided by numerous subject matter experts. Topics include food safety policy, ag bioterrorism, border security, animal ID, food defense and site security, risk analysis, crisis communication, epidemiology, HACCP, and more. Pr.: A course in biology or chemistry.

FDSCI 840. Public Health Field Experience. (3-6) I, II, S. Supervised field experience in an international, state, local, or district health agency or other appropriate health agency. May be taken more than once, but only 6 hours may be applied toward the MPH degree/program of study. Pr.: Consent of instructor. Same as DMP 840, HN 840, and KIN 840.

PLPTH 780. Spotted Microarray Workshop. (1) S or Intersession. One-week lecture and laboratory on RNA handling, isolation, and amplification; microarray design, fabrication, hybridization, scanning, and data analysis. Rec. Pr.: One of the following courses: PLPTH 610, AGRON 610, BIOCH 521, BIOCH 522, BIOL 675, BIOL 676.

PLPTH 785. Real-Time PCR Workshop. (1) I, S. Four half-day lecture and laboratory on real-time PCR primer/probe design, experimentation, and data analysis. Rec. Pr.: one of the following courses: PLPTH 610, AGRON 610, BIOCH 521, BIOCH 522, BIOL 675, BIOL 676.

EDCI 975. Internship in Reading. (Var. 1-4) I, II. Professional field experience for candidates to demonstrate expertise by supporting reading development, analyzing building and district needs, developing action plans, and conducting related professional development. Pr.: EDCI 945.

BAE 760. Environmental Engineering Seminar. (0) I, II. Discussion of current advances in research and practice of environmental engineering. One hour seminar biweekly. Pr.: None. Cross-listed with CE 760.

CE 866. Advanced Wastewater Treatment. (3) II. Recent advances in municipal and industrial wastewater treatment. Wastewater microbiology, wastewater biochemistry, applications of biotechnology in wastewater engineering, recent advances in nutrient removal processes, wastewater treatment technologies, and water reclamation. Three hours rec. Pr.: CE 766.

CIS 744. Advanced Software Analysis and Design. (3) II, S. Advanced concepts and practicum in object-oriented analysis, modeling, design, implementation, testing, and use of CASE tools; relationships among structural, static, and dynamic models; relationship among conceptual, system, and implementation models. Pr. CIS 540.

IMSE 890 Applied Methods in Industrial Engineering II. (2) I, II. This class requires students to have at least 12 weeks of full-time work experience in a job related to Industrial Engineering. This course can be taken only once by a graduate student. Pr. Approval of major professor and department head.

AT 805. Theory and Process in Creative Apparel and Textile Design. (3) I, in even years. An examination of theories and processes in creativity and design, including sustainable design, and their application to the design of creative apparel and textiles. Two hours lec. and four hours lab each week.

AT 896. Design Project Report. (1-2) I, II, S. Research and written documentation for the M.S. Design Project Report option in Apparel and Textiles. Pr: Consent of major professor.

AT 897. Design Project Exhibit. (1-6) I, II, S. Design development for the M.S. Design Project Report option in Apparel and Textiles resulting in a body of original works to be exhibited on campus during the final semester of the student's program. Pr: Consent of major professor.

Master of Science Degree Report Option in Apparel and Textiles: Design Project Report:

The M.S. Design Project Report option requires a minimum of 30 graduate credits, including 2 Design Project Report credits (AT 896) and 4 Design Project Exhibit credits (AT 897). An oral examination that involves the defense of the project and the integration of concepts from coursework is also required.

5) Graduate Student Affairs Committee

The Student Affairs Committee proposed the following motion be forwarded to the Faculty Affairs Committee of Faculty Senate:

The Graduate Council requests clarification and consideration that graduate students appointed as graduate teaching assistants, graduate research assistants, and graduate assistants be considered faculty for purpose of Appendix G.

Motion passed

The committee is currently revising the Graduate Handbook, Appendix A, Section B Graduate Student Academic Grievance Procedures.

6) Graduate School Committee on Planning

- a) The Committee on Planning proposed the following items for a *second* reading;

Graduate Handbook, Chapter 1 - Admission to Graduate Study, Section A – Admission Procedures

Proposed changes and additions:

A. ADMISSION PROCEDURES

~~Departments* and interdepartmental programs in the Graduate School~~ Graduate programs have the responsibility of receiving credentials from prospective graduate students and making recommendations on admission. Correspondence regarding admission to the Graduate School should thus be addressed to the appropriate ~~department or interdepartmental~~ graduate program, which will supply provide application blanks information on program admission requirements and any required supplementary forms information. Applicants should complete the online application and submit the application and application fee electronically via the Graduate School website at <http://www.k-state.edu/grad>. The Graduate School will record all applications and application fees and then forward a copy of the application form to the appropriate degree program for a recommendation. The applicant should submit all required documents and credentials (i.e. official transcripts statement of objectives, references, etc.) ~~An application should be received by the~~ to the appropriate ~~department or interdepartmental~~ graduate program at least three months before the applicant expects to enroll. This time period may be longer for degree programs with early deadlines and for international students applying for student visas. If the applicant is uncertain which ~~department or interdepartmental~~ graduate program should receive his or her correspondence, it may be addressed to the Graduate School.

One official copy of the applicant's transcript from each college or university attended must be submitted with every application. A transcript is official only when it is sent directly from the university or college in question and bears the institution's seal. For each applicant admitted, an official transcript showing the conferral of all previous degrees must be submitted to the Graduate School. All transcripts become part of the applicant's official file and are not returned.

If the graduate faculty of a ~~department or interdepartmental~~ graduate program decide to recommend admission, the application, transcripts, and supporting materials are sent to the Graduate School for final review. If the ~~department~~ graduate program decides against admission, it notifies the applicant by letter. The decision is made as expeditiously as possible. In the event of delay, applicants are given an approximate date on which they can expect notification.

Admission to graduate study does not imply admission to candidacy for an advanced degree. For a doctoral degree, such candidacy is confirmed only upon successful completion of preliminary examinations.

~~** Throughout this handbook references to departments should be understood to include the Division of Biology, the School of Family Studies and Human Services, and the A. Q. Miller School of Journalism and Mass Communications.*~~

Motion passed.

Graduate Handbook, Chapter 3 – The Doctoral Degree, Section K – Dissertation

Proposed changes and additions:

K. DISSERTATION

A dissertation is required of all candidates for the award of a doctoral degree. Its purpose is to demonstrate the candidate's ability to conduct significant original research of a type appropriate to the academic discipline, to analyze the information obtained from the research, and to present the results in a form acceptable to the supervisory committee. A dissertation must be written in a form appropriate to the discipline. General guidelines about the format of a dissertation appear in Appendix B.

The candidate must provide a copy of the dissertation to each member of the final examining committee (see below) at least two weeks before the final examination.

Following a successful final examination and approval of the final form of the dissertation by the examining committee, the candidate shall submit ~~three copies of the~~ an electronic dissertation to the Dean of the Graduate School at least one month prior to the commencement at which the degree is to be conferred.

Motion passed.

Graduate Handbook, Chapter 3 - The Doctoral Degree, Section L – Final Examination

Proposed changes and additions:

L. FINAL EXAMINATION

When the student is admitted to candidacy, the Dean of the Graduate School appoints an examining committee. This committee consists of the supervisory committee and a member of the graduate faculty not on the supervisory committee. For Ed.D. candidates the outside chair will be a graduate faculty within the College of Education. The additional member serves as chairperson for the final oral examination.

The outside chairperson, as the representative of the Graduate School, is responsible for conducting the final examination in an orderly manner, evaluating it as a test of the candidate's expertise, submitting the final examination ballot, and making other reports as appropriate or required. As a member of the examining committee, the chairperson also has the right and the responsibility to evaluate the candidate's performance and to cast a vote.

The major professor is responsible for submitting the ETDR Approval Form to the Graduate School. By submitting the signed ETDR Approval Form, the major professor indicates that he/she has reviewed and approved the final PDF file for electronic submission.

The responsibilities of the examining committee are:

1. To examine the doctoral dissertation and to report on the Approval To Schedule Final Examination Form whether the dissertation is acceptable for review. At least three-fourths of the committee must agree that it is in acceptable form before the final examination may be scheduled. All members must sign their approval or disapproval. By signing, a faculty member indicates only that the form of the dissertation is acceptable for review and that a final examination may be scheduled. Signing does not imply that the content of the dissertation is satisfactory.
2. To hold a public oral examination, after the dissertation is deemed acceptable in form, at which the candidate presents and defends the dissertation; and to report the result of this examination to the Dean of the Graduate School. All members of the examining committee (or substitutes appointed by the Dean of the Graduate School) are expected to be present throughout the examination. At least three-fourths of the examining committee including substitutes appointed by the Dean of the Graduate School must approve the candidate's performance before he or she is deemed to have passed. A refusal to vote by the chairperson or any other member of the examining committee shall be recorded as a negative vote. With the permission of at least three-fourths of the committee, a failed oral examination may be retaken but no sooner than three months from the date of the failure.

Normally the oral examination will be open to the public. All or part of the exam may be closed at the request of the major professor with only the committee, candidate and others approved by the major professor, attending the exam. Such a request with a justification for the examination not to be open, such as presentation of data on a pending patent or confidential materials based on existing contract, must be received by the Graduate School

before the exam is scheduled and must be approved by the Dean of the Graduate School.

The final oral examination may be taken when the student has completed the program of study and satisfied all other program requirements. All final examinations must be given on the Manhattan campus and scheduled at least two weeks in advance.

When the dissertation has been approved, the oral final examination has been passed, and all other requirements have been met, the candidate is recommended by the Dean of the Graduate School to the Faculty Senate for approval to award the degree.

Motion passed.

Graduate Handbook, Appendix B – Dissertations, Theses, and Reports - Section A – General Requirements

Proposed changes and additions:

A. GENERAL REQUIREMENTS

The faculty of individual graduate programs should establish policies regarding an appropriate style and general format of dissertations, theses and reports for their students. In the absence of detailed program requirements, the supervisory committee is responsible for specifying the style and general format to be used. Specific format requirements may be found in the current Student Guide for Master's and Doctoral Candidates, ~~copies of which are available in the Graduate School~~ available on the Graduate School website.

Regardless of the style and format used, a thesis or dissertation must be sufficiently complete to allow an independent investigator to repeat or verify all of the work leading to the author's results and conclusions. In certain cases, when a manuscript prepared for publication is to be used, the terseness or page restrictions required by professional journals may prevent an author from meeting this condition with the publishable manuscript alone. In such cases, the thesis or dissertation must include additional materials that ensure independent reproducibility tables, descriptions of unproductive or unsuccessful explorations, derivations, and so forth.

An abstract, not exceeding ~~300~~ 350 words, must accompany each copy of the dissertation, thesis or report. A thesis or dissertation must also include a title page that carries the signature ~~of the~~ block listing the major professor(s).

All ~~dissertations~~, theses, and reports are to be bound in accordance with specifications for Class A binding of the Library Binding Institute. To cover the cost of binding, the student must deposit a money order made out to an approved bindery. Specific information is available in the Graduate School. The university library will forward manuscripts to the bindery.

Dissertations may be bound for personal use through Heckman Bindery. Heckman Bindery information is available on the Graduate School website.

Motion passed.

Graduate Handbook, Appendix B – Dissertations, Theses, and Reports - Section B – Publication

Proposed changes and additions:

B. PUBLICATION

A dissertation is an original contribution to knowledge, and it should be available to interested scholars outside of Kansas State University. After completing their doctorate, authors may publish their dissertation in any form they see fit, but the University participates in a program intended to make these works accessible to the widest possible audience.

Dissertations are microfilmed by ~~University Microfilms International~~ UMI/ProQuest, and the abstracts submitted with them are published in Dissertation Abstracts. Works so listed are available from ~~University Microfilms~~ UMI/ProQuest as on-demand publications. A publication form from ~~UMI~~ UMI/ProQuest must be completed online and ~~turned in with the final copies. This form is available in the Graduate School~~ submitted with the electronic dissertation.

Access to all ETDR's (electronic theses, dissertations, reports) is available through K-State Research Exchange (K-REx). The full text is available in PDF format, supplemental files are available in their native format.

Motion passed.

Graduate Handbook, Appendix B – Dissertations, Theses, and Reports - Section C – Sequestration

Proposed changes and additions:

C. SEQUESTRATION

The purpose of sequestration is to delay for a limited time public dissemination of patentable or otherwise proprietary or sensitive materials. Prior to the final defense, the student and his/her major professor may request that the University act to protect the student's rights concerning the dissertation, thesis, or report by temporarily sequestering the work. Approval must be obtained from the Dean of the Graduate School at least 30 days prior to graduation.

If the dissertation, thesis, or report does not contain material believed to be patentable, the student's major professor should send a request of sequestration directly to the Dean of the Graduate School. If the dissertation, thesis, or report does contain material believed to be patentable, the student's major professor notifies the University Patent Advisory Committee. The chairperson of the University Patent Advisory Committee notifies the major professor of the committee's decision. The major professor sends a letter to the Graduate School requesting sequestration.

If approved by the Dean of the Graduate School, the Graduate School defers ~~submitting the abstract for microfilming and places all of the required copies~~ electronic submission of the dissertation, thesis, or report, ~~in a secure location in the Graduate School during the period of sequestration.~~ In place of electronic submission, a disk or CD of the PDF file(s) ~~electronic dissertation, thesis or report~~ is submitted to the Graduate School. The disk or CD is stored in a secure location in the Graduate School during the period of sequestration. However, this procedure involves no delay in the conferral of the degree. The student whose dissertation, thesis, or report has been approved for sequestration still deposits with the Graduate School the normal fees for graduation. These fees cover the cost of microfilming by ~~University Microfilms/Proquest~~ UMI/ProQuest, if applicable, at the time of degree completion.

Sequestration is normally limited to four years. Nevertheless, under compelling circumstances that require continued protection, the Dean of the Graduate School may approve further sequestration at the student's or major professor's request on a year-by-year basis for an additional three years.

If the request for sequestration is approved, the Graduate School provides the student a preliminary receipt for the required ~~copies~~ disk or CD after ~~it is they are~~ submitted. After the sequestering period, Graduate School provides the student and major professor a receipt indicating the ~~three copies or ETDR file(s) have been delivered to the University Archives~~ made available through K-State Research Exchange and submitted to UMI/ProQuest.

As long as the ~~copies~~ disks or CD remain in the secure location within the Graduate School, access to them may be obtained only with the student's and major professor's written permission authorizing the type of access. On each occasion when the document is reviewed, it will not leave the Graduate School and the user must sign a form on the same day on which he or she uses them indicating he/she had access to the document.

At the end of the sequestration period, the University has the right to disseminate information from

the dissertation, thesis, or report as an original contribution to knowledge. For the dissertation, publication normally will be accomplished by electronically submitting the work to ~~University Microfilms/Proquest~~ UMI/ProQuest for microfilming.

Motion passed.

7) Graduate School Committee on Assessment and Review

Carol Shanklin reported the committee briefly reviewed the MS and PhD assessment plans for Security Studies and determined they will need additional information. Certificate programs should have received a memo from the Provost in regard to submitting certificate program assessment plans. The deadline for submission of assessment plans and student learning outcomes for certificate programs is March 1, 2007. The Office of Assessment and The Office of Planning and Analysis are available for assistance in preparing certificate program assessment plans. A subcommittee of the Committee on Assessment and Review has been established to facilitate the process of program review.

8) Graduate Student Council Information

David Olds (President) summarized the following Graduate Student Council activities:

- The first professional development seminar, Vita Writing was held on November 30, 2006. The seminar attracted 85+ graduate students and for the first time was broadcast to the Salina Campus.

The remaining professional development seminars will be held in the K-State Student Union from 4:00-6:00 pm on the following dates:

Thursday, January 25, 2007, Academic Interviews - Room 213
Thursday, February 8, 2007, Professional Interviews - Big 12 Room
Thursday, February 22, 2007, Research Interests - Big 12 Room
Thursday, March 8, 2007, Conflict Resolution - Big 12 Room

- Abstracts for Graduate Research Forum and Capitol Research Summit are due Friday, January 26, 2007.
- The Graduate Research Forum will be held in the K-State Student Union on Friday, March 2, 2007.
- The Topeka Capitol Research Summit will be held in Topeka on Thursday, March 15, 2007.

9) University Research and Scholarship

- National Research Council's Research Doctorate Program Study

The Graduate School submitted the faculty and student list to Mathematica on November 10, 2006. In late December faculty should receive an email notification from the National Research Council that will provide information to access the web based faculty survey. The purpose of this email is to clarify the instructions on reporting your publications.

Faculty need to update their curriculum vita (CV) to include all publications and grants for the last five years. They should upload their CV prior to submitting the completed survey. Instructions are provided at the end of the faculty survey. By uploading their CV, faculty will not need to complete section D4 which is limited to 30 publications. Faculty are to complete the NRC Faculty Survey no later than February 15, 2007. Faculty's participation is critical since data from the questionnaire will be used to determine faculty productivity and program quality.

10) Other business

The Graduate School Fall 06 Commencement Ceremony will be held in Bramlage Coliseum. Pete Souza, a former White House photographer will be the speaker for the ceremony. He will also have an exhibit on display at the Kemper Gallery in the Union November 30 - December 21, 2006.

Council was adjourned at 4:05 p.m.