

Attachment 3
Academic Affairs
Consent Agenda Supplemental Information

College of Business Administration (2-10-14)

Pages 2-4 (curriculum change)

College of Agriculture (3-10-14)

Pages 5-7 (course changes)

Pages 8-41 (curriculum drops and changes)

College of Technology & Aviation, K-State Salina (3-21-14)

Pages 42-43 (course additions)

College of Education (3-25-14)

Pages 44-45 (course additions)

Pages 46-48 (curriculum changes and additions)

College of Arts & Sciences (4-3-14)

Pages 49-55 (course changes and additions)

Pages 56-76 (curriculum changes and additions)

College of Engineering (4-4-14)

Pages 77-81 (course changes)

Graduate Course and Curriculum (4-1-14)

Pages 82 (course changes)

Pages 83-89 (course additions)

Pages 90- 100 (curriculum changes)

Pages 101-102 (curriculum addition)

College of Business Administration (2-10-14)

Department of Management

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=3385&returnto=1363

FROM:

TO:

<p>MANAGEMENT (B.S.) Human Resource Management</p> <p>Major Field requirements (9-credit hours)</p> <hr/> <ul style="list-style-type: none"> • MANGT 520 - Organizational Behavior Credits: (3) • MANGT 521 - Quantitative Management Credits: (3) • MANGT 531 - Human Resources Management Credits: (3) <p>Required (3 credit hours):</p> <hr/> <p><i>Note: MANGT 535 - Employment Law is required for students in the HRM emphasis.</i></p> <ul style="list-style-type: none"> • MANGT 535 - Employment Law Credits: (3) <p>Select 9 credit hours from:</p> <hr/> <ul style="list-style-type: none"> • * MANGT 497 - Topics in Management Credits: (3) • MANGT 530 - Industrial and Labor Relations Credits: (3) • MANGT 550 - Organizational Training and Development Credits: (3) • MANGT 560 - Management of Diversity in the Workplace Credits: (3) • MANGT 623 - Compensation and 	<p>MANAGEMENT (B.S.) Human Resource Management</p> <p>Major Field requirements (6 credit hours)</p> <hr/> <ul style="list-style-type: none"> • MANGT 520 - Organizational Behavior Credits: (3) • MANGT 531 - Human Resources Management Credits: (3) <p>Required (9 credit hours):</p> <hr/> <ul style="list-style-type: none"> • MANGT 535 - Employment Law Credits: (3) • <u>MANGT 623 - Compensation and Performance Management Credits: (3)</u> • <u>MANGT 643 - Staffing Organizations Credits: (3)</u> <p>Select 6 credit hours from:</p> <hr/> <ul style="list-style-type: none"> • MANGT 530 - Industrial and Labor Relations Credits: (3) • MANGT 550 - Organizational Training and Development Credits: (3) • MANGT 560 - Management of Diversity in the Workplace Credits: (3) • MANGT 633 - Advanced Human Resource Management Credits: (3) • MANGT 690 - International
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<p>Performance Management Credits: (3)</p> <ul style="list-style-type: none"> • MANGT 633 - Advanced Human Resource Management Credits: (3) • MANGT 690 - International Management Credits: (3) <p>Note</p> <hr/>	<p>Management Credits: (3)</p>
<p><i>*Note: MANGT 497 Topics in Management is a general topics course. Students and academic advisors will be notified by the Management Department when the course is taught, and if it will count as a major field elective for either HRM or OSCM emphases.</i></p> <p>Economics Electives (6 credit hours)</p> <hr/>	<p>Economics Electives (6 credit hours)</p> <hr/>
<p>Notes: Economics electives must be selected from economics course offerings numbered 500 or above (excluding ECON 505) in consultation with the student's academic advisor.</p> <p>Economics electives may not overlap with economics courses used to fulfill another requirement within the management major.</p> <ul style="list-style-type: none"> • Economics elective Credits: (3) • ECON 520 - Intermediate Microeconomics Credits: (3) or • ECON 540 - Managerial Economics Credits: (3) 	<p>Notes: Economics electives must be selected from economics course offerings numbered 500 or above (excluding ECON 505) in consultation with the student's academic advisor.</p> <p>Economics electives may not overlap with economics courses used to fulfill another requirement within the management major.</p> <ul style="list-style-type: none"> • Economics elective Credits: (3) • ECON 520 - Intermediate Microeconomics Credits: (3) or • ECON 540 - Managerial Economics Credits: (3)
<p>Unrestricted electives (15 credit hours)</p> <hr/> <ul style="list-style-type: none"> • Any course numbered 100-level or above offered for credit by a university department. Students are strongly encouraged to use their unrestricted electives to complete for-credit 	<p>Unrestricted electives (15 credit hours)</p> <hr/> <ul style="list-style-type: none"> • Any course numbered 100-level or above offered for credit by a university department. Students are strongly encouraged to use their unrestricted electives to complete for-credit

<p>experiential learning opportunities, such as internships, community service/engagement, and study abroad.</p> <p>Total hours required for graduation (126 credit hours)</p>	<p>experiential learning opportunities, such as internships, community service/engagement, and study abroad.</p> <p>Total hours required for graduation (126 credit hours)</p>
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Rationale:

To better prepare our Human Resource Management (HRM) emphasis students (in the Management major) for jobs in the HRM area, we want to add a new Staffing course (Mangt 643), move one course from being an elective to being required (Mangt 623), and remove the required quantitative management course (Mangt 521) to make room for a more HRM-focused curriculum without adding additional credit hours. HRM emphasis students will have fewer electives and more required HRM courses. These changes fully align our HRM curriculum with the recommendations of the main professional organization for HRM professional (Society for HRM) and the conclusions of recent national studies on HRM education (which included students, business professionals and academics).

Impact on Other Units:

None

Effective Date:

Fall 2014

College of Agriculture (3-10-14)

Non-expedited Course Changes (599 and below)

Horticulture, Forestry, and Recreation Resources

Park Management and Conservation

ADD: PMC 113. Shooting Sports Certification (1) I. Students will gain youth leadership and shooting sports proficiency and instruction skills in riflery, hunting skills, pistol, archery, shotgun and muzzleloaders. Participants in the firearms disciplines may (with additional coursework and passing of a written test) be eligible to receive 4H or Scouting shooting sports instructor certification. By appointment.

RATIONALE: The PMC prefix reflects the simplification and consolidation of curricular components (*eventually all PMC focused RRES course offerings will use the PMC prefix*). Essentially the change involves taking a portion of a former course (RRES 310) and reformatting it into a series of 1 hour courses.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Spring 2015

ADD: PMC 114. Kansas Park and Wildlife Regulations (1) I. Students will gain proficiency in their understanding and appropriate enforcement of state statutes and enforceable regulations dealing specifically with parks and wildlife. The underlying purpose of the course is to provide PMC students interested in pursuing careers as park rangers or conservation officers with Kansas specific regulation coverage. By appointment. (Meets the PMC 1hr certification requirement).

RATIONALE: The PMC prefix reflects the simplification and consolidation of curricular components (*eventually all PMC focused RRES course offerings will use the PMC prefix*). Essentially the change involves taking a portion of a former course (RRES 310) and reformatting it into a series of 1 hour courses.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Spring 2015

ADD: PMC 115. Adventure Challenge Certification (1) I. This training focuses on adventure challenge and team building on low ropes courses, high

ropes facilitation and 16 additional hours of ropes course managers training. Students will examine challenge course expectations and assessments. Students will be provided skills to work with various clientele from corporate teams to persons with disabilities. The course will meet ACCT (Association for Challenge Course Technology) requirements.

RATIONALE: The PMC prefix reflects the simplification and consolidation of curricular components (*eventually all PMC focused RRES course offerings will use the PMC prefix*). Essentially the change involves taking a portion of a former course (RRES 310) and reformatting it into a series of 1 hour courses.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Spring 2015

ADD: PMC 120. Outdoor Recreation Certification (1) I. This course is designed to provide the PMC major 1 hour of credit for outdoor recreation certifications not directly taught by Kansas State University. Examples are numerous, and include first aid, first responder, Archery in Schools Instructor, Aquatic Facility Operator, Playground Inspector certification. Certification being accepted must involve a minimum of 16 hours of contact, exercise and assessment hours; or additional requirements can be added by PMC faculty to meet 16 hours of content.

RATIONALE: The PMC prefix reflects the simplification and consolidation of curricular components (*eventually all PMC focused RRES course offerings will use the PMC prefix*). Essentially the change involves taking a portion of a former course (RRES 310) and reformatting it into a series of 1 hour courses.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Spring 2015

Wildlife and Outdoor Enterprise Management

ADD: RRES 561. Waterfowl Hunting and Guiding and Wetlands Management (3) I. This course explores the natural history of waterfowl and wetland birds and habitat management. It includes basic information on the habitat requirements, management techniques, ranges, migration patterns, history, problems, diseases, and identification of the waterfowl resources of North America. Professional principles and practices associated with hunting waterfowl species in North America to include: ethics, laws, species' habitat requirements, and daily and seasonal

activities of each species, methods of harvest, dog handling, post-harvest handling and clientele interactions. Includes the following success skills: Communicates Effectively and Maintains Professional Skills and Attitudes. Two one hour lectures and one two hour lab per week. K-State 8: Ethical Reasoning and Responsibility and Natural and Physical Sciences.

RATIONALE: This course expands the offerings for Wildlife and Outdoor Enterprise majors to complement the more general courses in the major.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Spring 2015

Undergraduate Curriculum Changes

Animal Sciences & Industry

B.S. in Agriculture: Animal Sciences and Industry: Animal Products Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
ASI	101	Animal Science Orientation	-OR-	ASI	101	Animal Science Orientation	-OR-
GENAG	200	College Careers	0	GENAG	200	College Careers	0
CHM	110	General Chemistry	3	CHM	110	General Chemistry	3
CHM	111	Gen Chemistry Lab	1	CHM	111	Gen Chemistry Lab	1
BIOL	198	Principles of Biology	4	BIOL	198	Principles of Biology	4
ECON	110	Prin Macro Economics	3	ECON	110	Prin Macro Economics	3
ENGL	100	Expository Writing I	3	ENGL	100	Expository Writing I	3
ENGL	200	Expository Writing II	3	ENGL	200	Expository Writing II	3
MATH	100	College Algebra	3	MATH	100	College Algebra	3
COMM	105	Public Speaking IA	2	COMM	105	Public Speaking IA	2
AGRICULTURE				AGRICULTURE			
(Select 2 courses from 2 other AG Depts. – min. 5 hrs)				(Select 2 courses from 2 other AG Depts. – min. 5 hrs)			
(1 hour courses cannot be applied)				(1 hour courses cannot be applied)			
AGCOM – Any course in AGCOM				AGCOM – Any course in AGCOM			
AGEC – Any course in AGECE				AGEC – Any course in AGECE			
ASI – ASI 660				ASI – ASI 660			
ATM – Any course in ATM				ATM – Any course in ATM			
AGRON – Any course in AGRON				AGRON – Any course in AGRON			
ENTOM – Any course in ENTOM				ENTOM – Any course in ENTOM			
FDSCI – FDSCI 660				FDSCI – FDSCI 660			
GRSC – Any course in GRSC				GRSC – Any course in GRSC			
HORT – Any course in HORT				HORT – Any course in HORT			
FOR – Any course in FOR				FOR – Any course in FOR			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – Any course in PLPTH				PLPTH – Any course in PLPTH			
GENAG – GENAG 450, 505				GENAG – GENAG 450, 505			
BIOSCIENCES				BIOSCIENCES			
BIOCH	265	Intro Org & BioChem	5	BIOCH	265	Intro Org & BioChem	5
BIOL	455	General Microbiology	4	BIOL	455	General Microbiology	4
HUMANITIES/SOCIAL SCIENCE				HUMANITIES/SOCIAL SCIENCE			
(Minimum 9 hours)				(Minimum 9 hours)			
(Must be taken from more than one department)				(Must be taken from more than one department)			
(Maximum 3 hours in performance courses)				(Maximum 3 hours in performance courses)			
AMETH – AMETH 160 to 501				AMETH – AMETH 160 to 501			
ANTH – Any course				ANTH – Any course			
ARCH – ARCH 301				ARCH – ARCH 301			
ART – Any course				ART – Any course			
DANCE – DANCE 120 to 200, 225 to 420, 495 to 690				DANCE – DANCE 120 to 200, 225 to 420, 495 to 690			
DEN – DEN 325, 450				DEN – DEN 325, 450			
ECON - ECON 120-799				ECON - ECON 120-799			
ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799				ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799			
ENVD – ENVD 250, 251				ENVD – ENVD 250, 251			
GEOG – GEOG 100, 200, 201, 300 to 799				GEOG – GEOG 100, 200, 201, 300 to 799			
HIST – Any course				HIST – Any course			

FSHS – Any course	FSHS – Any course
MUSIC – Any course	MUSIC – Any course
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU	Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU
PHILO – Any course	PHILO – Any course
POLSC – Any course	POLSC – Any course
PSYCH – Any course	PSYCH – Any course
SOCIO – Any course	SOCIO – Any course
SOCWK – Any course	SOCWK – Any course
DANCE – Any course	DANCE – Any course
THTRE – Any course	THTRE – Any course
WOMST – Any course	WOMST – Any course
BUSINESS & ECONOMICS	BUSINESS & ECONOMICS
ACCTG 231 Accounting Bus Ops 3 (Minimum 12 hours)	ACCTG 231 Accounting Bus Ops 3 (Minimum 12 hours)
AGEC - AGECE 202 to 420, 445 to 799	AGEC - AGECE 202 to 420, 445 to 799
ACCTG – ACCTG 241 to 799	ACCTG – ACCTG 241 to 799
ENTRP – Any course	ENTRP – Any course
FINAN – Any course	FINAN – Any course
FSHS – FSHS 105 & 405	FSHS – FSHS 105 & 405
MANGT – Any course	MANGT – Any course
MKTG – Any course	MKTG – Any course
MATH/STATISTICS/COMPUTERS	MATH/STATISTICS/COMPUTERS
(Select 1)	(Select 1)
STAT 325 Intro Statistics 3	STAT 325 Intro Statistics 3
STAT 340 Biometrics I 3	STAT 340 Biometrics I 3
STAT 350 Business Econ Statistics 3 (Minimum 3 hours)	STAT 350 Business Econ Statistics 3 (Minimum 3 hours)
ASI – ASI 490	ASI – ASI 490
CIS – CIS 101 to 104	CIS – CIS 101 to 104
MATH – MATH 150, 205, 210, 211, 220, 221, 222	MATH – MATH 150, 205, 210, 211, 220, 221, 222
STAT – STAT 341, 351	STAT – STAT 341, 351
COMMUNICATIONS	COMMUNICATIONS
(Select 1)	(Select 1)
AGCOM – AGCOM 310, 400, 410, 590 & 610	AGCOM – AGCOM 310, 400, 410, 590 & 610
ASI – 326, 420, 470, & 495	ASI – 326, 420, 470, & 495
COMM – COMM 311, 321, 322, 326	COMM – COMM 311, 321, 322, 326
ENGL – ENGL 300, 516	ENGL – ENGL 417, 510, 516
GENAG – GENAG 450	GENAG – GENAG 450
MC – MC 110, 111, 112, 120, & 180	MC – MC 110, 111, 112, 120, & 180
ANIMAL & FOOD SCIENCE	ANIMAL & FOOD SCIENCE
ASI 102 Prin Animal Science 3	ASI 102 Prin Animal Science 3
ASI 105 Animal Sciences & Ind 1	ASI 105 Animal Sciences & Ind 1
ASI 106 Dairy/Poultry Lab 1	ASI 106 Dairy/Poultry Lab 1
ASI 318 Fund. of Nutrition 3	ASI 318 Fund. of Nutrition 3
ASI 580 ASI Seminar 1	ASI 580 ASI Seminar 1
FDSCI 302 Intro Food Science 3	FDSCI 302 Intro Food Science 3
FDSCI 600 Food Microbiology 2	FDSCI 600 Food Microbiology 2
FDSCI 601 Food Microbiology Lab 2	FDSCI 601 Food Microbiology Lab 2
FDSCI 690 Principles of HACCP 2	FDSCI 690 Principles of HACCP 2
FDSCI 695 QA of Food Products 3 (Select 1 course)	FDSCI 695 QA of Food Products 3 (Select 1 course)
ASI 350 Meat Science 3	ASI 350 Meat Science 3
ASI 405 Fund Milk Processing 3 (Select 1 course)	ASI 405 Fund Milk Processing 3 (Select 1 course)

ASI	515	Beef Science	3	ASI	515	Beef Science	3
ASI	524	Sheep/Meat Goat Science	3	ASI	524	Sheep/Meat Goat Science	3
ASI	535	Swine Science	3	ASI	535	Swine Science	3
ASI	621	Dairy Cattle Management	3	ASI	621	Dairy Cattle Management	3
ASI	645	Poultry Management	3	ASI	645	Poultry Management	3
(Select 18 hours)				(Select 18 hours)			
ASI	315	Livestock & Meat Eval	3	ASI	315	Livestock & Meat Eval	3
ASI	361	Meat Animal Processing	2	ASI	361	Meat Animal Processing	2
ASI	370	Prin. Meat Evaluation	2	ASI	370	Prin. Meat Evaluation	2
ASI	495	Adv. Meat Evaluation	2	ASI	495	Adv. Meat Evaluation	2
ASI	500	Genetics	3	ASI	500	Genetics	3
ASI	510	Animal Breeding	3	ASI	510	Animal Breeding	3
ASI	533	Anatomy & Physiology	4	ASI	533	Anatomy & Physiology	4
ASI	561	Undergrad Research in ASI	0-3	ASI	561	Undergrad Research in ASI	0-3
ASI	608	Dairy Food Processing Tech	3	ASI	608	Dairy Food Processing Tech	3
ASI	610	Processed Meat Ops	2	ASI	610	Processed Meat Ops	2
ASI	640	Poultry Product Tech	3	ASI	640	Poultry Product Tech	3
ASI	650	I.D. Data Mngt Food Animal	2	ASI	650	I.D. Data Mngt Food Animal	2
ASI	655	Behavior Domestic Animals	3	ASI	655	Behavior Domestic Animals	3
ASI	658	Animal Growth & Development	3	ASI	658	Animal Growth & Development	3
ASI	777	Meat Technology	3	ASI	777	Meat Technology	3
FDSCI	305	Fund Food Processing	3	FDSCI	305	Fund Food Processing	3
FDSCI	430	Food Product Eval	3	FDSCI	430	Food Product Eval	3
FDSCI	603	Food Science Internship	1-3	FDSCI	603	Food Science Internship	1-3
Total hours required for graduation (126 credit hours)				Total hours required for graduation (126 credit hours)			

RATIONALE: In the communications elective block in all 6 of the ASI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Animal Sciences & Industry Department agrees with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

B.S. in Agriculture: Animal Sciences and Industry: Biosciences/Biotechnology Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
ASI	101	Animal Science Orientation -or-	1	ASI	101	Animal Science Orientation -or-	1
GENAG	200	College Careers	0	GENAG	200	College Careers	0
CHM	210	Chemistry I	4	CHM	210	Chemistry I	4
BIOL	198	Principles of Biology	4	BIOL	198	Principles of Biology	4
ECON	110	Prin Macro Economics	3	ECON	110	Prin Macro Economics	3
ENGL	100	Expository Writing I	3	ENGL	100	Expository Writing I	3
ENGL	200	Expository Writing II	3	ENGL	200	Expository Writing II	3
MATH	100	College Algebra	3	MATH	100	College Algebra	3
COMM	105	Public Speaking IA	2	COMM	105	Public Speaking IA	2
AGRICULTURE				AGRICULTURE			
(Plus 2 courses - 2 other AG Depts. min. 5 hours)				(Plus 2 courses - 2 other AG Depts. min. 5 hours)			
(1 hour courses cannot be applied)				(1 hour courses cannot be applied)			
AGCOM – Any course in AGCOM				AGCOM – Any course in AGCOM			
AGEC – Any course in AGECE				AGEC – Any course in AGECE			
ASI – ASI 660				ASI – ASI 660			
ATM – Any course in ATM				ATM – Any course in ATM			
AGRON – Any course in AGRON				AGRON – Any course in AGRON			
ENTOM – Any course in ENTOM				ENTOM – Any course in ENTOM			
FDSCI – Any course in FDSCI				FDSCI – Any course in FDSCI			
GRSC – Any course in GRSC				GRSC – Any course in GRSC			
HORT – Any course in HORT				HORT – Any course in HORT			
FOR – Any course in FOR				FOR – Any course in FOR			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – Any course in PLPTH				PLPTH – Any course in PLPTH			
GENAG – GENAG 450, 505				GENAG – GENAG 450, 505			
HUMANITIES/SOCIAL SCIENCE				HUMANITIES/SOCIAL SCIENCE			
(Minimum 9 hours)				(Minimum 9 hours)			
(Must be taken from more than one department)				(Must be taken from more than one department)			
(Maximum 3 hours in performance courses)				(Maximum 3 hours in performance courses)			
AMETH – AMETH 160 to 501				AMETH – AMETH 160 to 501			
ANTH – Any course				ANTH – Any course			
ARCH – ARCH 301				ARCH – ARCH 301			
ART – Any course				ART – Any course			
DANCE – DANCE 120 to 200, 225 to 420, 495 to 690				DANCE – DANCE 120 to 200, 225 to 420, 495 to 690			
DEN – DEN 325, 450				DEN – DEN 325, 450			
ECON - ECON 120-799				ECON - ECON 120-799			
ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799				ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799			
ENVD – ENVD 250, 251,				ENVD – ENVD 250, 251,			
GEOG – GEOG 100, 200, 201, 300 to 799				GEOG – GEOG 100, 200, 201, 300 to 799			
HIST – Any course				HIST – Any course			
FSHS – Any course				FSHS – Any course			
MUSIC – Any course				MUSIC – Any course			
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU				Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU			
PHILO – Any course				PHILO – Any course			
POLSC – Any course				POLSC – Any course			
PSYCH – Any course				PSYCH – Any course			
SOCIO – Any course				SOCIO – Any course			

SOCWK – Any course				SOCWK – Any course			
DANCE – Any course				DANCE – Any course			
THTRE – Any course				THTRE – Any course			
WOMST – Any course				WOMST – Any course			
BIOSCIENCES/BIOTECH				BIOSCIENCES/BIOTECH			
ASI	200	Intro Research in ASI	1	ASI	200	Intro Research in ASI	1
BIOL	455	General Microbiology	4	BIOL	455	General Microbiology	4
(Minimum 9 hours)				(Minimum 9 hours)			
CHM	230	Chemistry II	4	CHM	230	Chemistry II	4
CHM	350	General Organic Chemistry	3	CHM	350	General Organic Chemistry	3
CHM	351	General Organic Chemistry Lab	2	CHM	351	General Organic Chemistry Lab	2
BIOCH	521	General Biochemistry	3	BIOCH	521	General Biochemistry	3
BIOCH	522	General Biochemistry Lab	2	BIOCH	522	General Biochemistry Lab	2
(Select 4 courses)				(Select 4 courses)			
ASI	598	Bioscience Internship in ASI	1-6	ASI	598	Bioscience Internship in ASI	1-6
ASI	600	Applied Animal Biotechnology	2*	ASI	600	Applied Animal Biotechnology	2*
ASI	658	Animal Growth & Development	3	ASI	658	Animal Growth & Development	3
BIOL	330	Public Health Biology	3	BIOL	330	Public Health Biology	3
BIOL	410	Biology of the Cancer Cell	2	BIOL	410	Biology of the Cancer Cell	2
BIOL	450	Modern Genetics	3	BIOL	450	Modern Genetics	3
BIOL	510	Developmental Biology	3	BIOL	510	Developmental Biology	3
BIOL	511	Developmental Biology Lab	1	BIOL	511	Developmental Biology Lab	1
BIOL	530	Pathogenic Microbiology	3	BIOL	530	Pathogenic Microbiology	3
BIOL	541	Cell Biology	3	BIOL	541	Cell Biology	3
BIOL	545	Human Parasitology	3	BIOL	545	Human Parasitology	3
BIOL	546	Human Parasitology Lab	1	BIOL	546	Human Parasitology Lab	1
BIOL	625	Animal Parasitology	4	BIOL	625	Animal Parasitology	4
BIOL	671	Immunology	4	BIOL	671	Immunology	4
BIOL	671	Immunology Lab	2	BIOL	671	Immunology Lab	2
ENTOM	305	Animal Health Entomology	2	ENTOM	305	Animal Health Entomology	2
ENTOM	306	Animal Health Entomology Lab	1	ENTOM	306	Animal Health Entomology Lab	1
PLPTH	610	Biotechnology	3*	PLPTH	610	Biotechnology	3*
PLPTH	611	Ag Biotechnology Lab	3	PLPTH	611	Ag Biotechnology Lab	3
PLPTH	612	Genomics Applications	3	PLPTH	612	Genomics Applications	3
PSYCH	470	Psychobiology	3	PSYCH	470	Psychobiology	3
* At least one of these biotech courses must be included in the select 4.				* At least one of these biotech courses must be included in the select 4.			
BUSINESS & ECONOMICS				BUSINESS & ECONOMICS			
(2 courses, total 6 hours)				(2 courses, total 6 hours)			
AGEC - AGECE 202 to 420, 445 to 799				AGEC - AGECE 202 to 420, 445 to 799			
ACCTG - ACCTG 231 to 799				ACCTG - ACCTG 231 to 799			
ENTRP - Any course				ENTRP - Any course			
FINAN - Any course				FINAN - Any course			
FSHS - FSHS 105 & 405				FSHS - FSHS 105 & 405			
MANGT - Any course				MANGT - Any course			
MKTG - Any course				MKTG - Any course			
STATISTICS				STATISTICS			
(Select 1)				(Select 1)			
STAT	325	Intro to Statistics	3	STAT	325	Intro to Statistics	3
STAT	340	Biometrics I	3	STAT	340	Biometrics I	3
STAT	350	Business & Econ Statistics	3	STAT	350	Business & Econ Statistics	3
PHYSICS/MATH/COMPUTERS				PHYSICS/MATH/COMPUTERS			
(Minimum 3 hours)				(Minimum 3 hours)			
ASI - ASI 490				ASI - ASI 490			
CIS - CIS 101, 102, 103, 104, 105				CIS - CIS 101, 102, 103, 104, 105			
MATH - MATH 205, 210, 211, 220, 221, 222				MATH - MATH 205, 210, 211, 220, 221, 222			

PHYS – PHYS 113, 114 COMMUNICATIONS (Select 1)				PHYS – PHYS 113, 114 COMMUNICATIONS (Select 1)			
AGCOM – AGCOM 310, 400, 410, 590 & 610				AGCOM – AGCOM 310, 400, 410, 590 & 610			
ASI – 326, 420, 470, & 495				ASI – 326, 420, 470, & 495			
COMM – COMM 311, 321, 322, 326				COMM – COMM 311, 321, 322, 326			
ENGL – ENGL 300, 516				ENGL – ENGL 417, 510, 516			
MC – MC 110, 111, 112, 120, & 180				MC – MC 110, 111, 112, 120, & 180			
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU				Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU			
ANIMAL SCIENCE				ANIMAL SCIENCE			
ASI	102	Prin Animal Science	3	ASI	102	Prin Animal Science	3
ASI	105	Animal Sciences & Ind	1	ASI	105	Animal Sciences & Ind	1
ASI	106	Dairy/Poultry Lab	1	ASI	106	Dairy/Poultry Lab	1
ASI	107	Comp Anml/Horse Lab	1	ASI	107	Comp Anml/Horse Lab	1
ASI	318	Fund. of Nutrition	3	ASI	318	Fund. of Nutrition	3
ASI	400	Farm Animal Reproduction	3	ASI	400	Farm Animal Reproduction	3
ASI	401	Farm Animal Repro Lab	1	ASI	401	Farm Animal Repro Lab	1
ASI	500	Genetics	3	ASI	500	Genetics	3
ASI	520	Companion/Lab Animal Mngt	3	ASI	520	Companion/Lab Animal Mngt	3
ASI	533	Anatomy & Physiology	4	ASI	533	Anatomy & Physiology	4
ASI	580	ASI Seminar	1	ASI	580	ASI Seminar	1
(Minimum 6 hours)				(Minimum 6 hours)			
ASI	315	Livestock & Meat Eval	3	ASI	315	Livestock & Meat Eval	3
ASI	320	Principles of Feeding	3	ASI	320	Principles of Feeding	3
ASI	350	Meat Science	3	ASI	350	Meat Science	3
ASI	361	Meat Animal Processing	2	ASI	361	Meat Animal Processing	2
ASI	405	Fund Milk Processing	3	ASI	405	Fund Milk Processing	3
ASI	510	Animal Breeding Principles	3	ASI	510	Animal Breeding Principles	3
ASI	540	Principles of Animal Disease	3	ASI	540	Principles of Animal Disease	3
ASI	561	Undergraduate Research	0-3	ASI	561	Undergraduate Research	0-3
ASI	595	Contemp Issues Anml Ag	3	ASI	595	Contemp Issues Anml Ag	3
ASI	601	Physiology of Lactation	3	ASI	601	Physiology of Lactation	3
ASI	608	Dairy Foods Processing & Technol (3)		ASI	608	Dairy Foods Processing & Technol (3)	
ASI	640	Poultry Product Tech	3	ASI	640	Poultry Product Tech	3
ASI	655	Behavior Domestic Animals	3	ASI	655	Behavior Domestic Animals	3
ASI	695	Equine Exercise Physiology	3	ASI	695	Equine Exercise Physiology	3
FDSCI	600	Food Microbiology	2	FDSCI	600	Food Microbiology	2
(Select 1 course)				(Select 1 course)			
ASI	515	Beef Science	3	ASI	515	Beef Science	3
ASI	521	Horse Science	3	ASI	521	Horse Science	3
ASI	524	Sheep/Meat Goat Science	3	ASI	524	Sheep/Meat Goat Science	3
ASI	535	Swine Science	3	ASI	535	Swine Science	3
ASI	621	Dairy Cattle Management	3	ASI	621	Dairy Cattle Management	3
ASI	645	Poultry Management	3	ASI	645	Poultry Management	3
Total hours required for graduation (126 credit hours)				Total hours required for graduation (126 credit hours)			

RATIONALE: In the communications elective block in all 6 of the ASI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Animal Sciences & Industry Department agrees with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

B.S. in Agriculture: Animal Sciences and Industry: Business Option

FROM:		TO:	
GENERAL COURSES		GENERAL COURSES	
ASI	101 Animal Science Orientation -or- 1	ASI	101 Animal Science Orientation -or- 1
GENAG	200 College Careers 0	GENAG	200 College Careers 0
CHM	110 General Chemistry 3	CHM	110 General Chemistry 3
CHM	111 General Chemistry Lab 1	CHM	111 General Chemistry Lab 1
BIOL	198 Principles of Biology 4	BIOL	198 Principles of Biology 4
ECON	110 Prin Macro Economics 3	ECON	110 Prin Macro Economics 3
ENGL	100 Expository Writing I 3	ENGL	100 Expository Writing I 3
ENGL	200 Expository Writing II 3	ENGL	200 Expository Writing II 3
MATH	100 College Algebra 3	MATH	100 College Algebra 3
COMM	105 Public Speaking IA 2	COMM	105 Public Speaking IA 2
AGRICULTURE		AGRICULTURE	
AGEC	120 Ag Econ & Agribusiness 3	AGEC	120 Ag Econ & Agribusiness 3
(Plus 2 courses - 2 other AG Depts. min. 5 hours)		(Plus 2 courses - 2 other AG Depts. min. 5 hours)	
(1 hour courses cannot be applied, cannot use courses from AGECEC)		(1 hour courses cannot be applied, cannot use courses from AGECEC)	
AGCOM – Any course in AGCOM		AGCOM – Any course in AGCOM	
AGEC – AGECEC460		AGEC – AGECEC460	
ASI – ASI 660		ASI – ASI 660	
ATM – Any course in ATM		ATM – Any course in ATM	
AGRON – Any course in AGRON		AGRON – Any course in AGRON	
ENTOM – Any course in ENTOM		ENTOM – Any course in ENTOM	
FDSCI – Any course in FDSCI		FDSCI – Any course in FDSCI	
GRSC – Any course in GRSC		GRSC – Any course in GRSC	
HORT – Any course in HORT		HORT – Any course in HORT	
FOR – Any course in FOR		FOR – Any course in FOR	
RRES – RRES 210 to 490, 521 to 705		RRES – RRES 210 to 490, 521 to 705	
PLPTH – Any course in PLPTH		PLPTH – Any course in PLPTH	
GENAG – GENAG 450, 505		GENAG – GENAG 450, 505	
BIOSCIENCES		BIOSCIENCES	
ASI	500 Genetics 3	ASI	500 Genetics 3
ASI	533 Anatomy & Physiology 4	ASI	533 Anatomy & Physiology 4
HUMANITIES/SOCIAL SCIENCE		HUMANITIES/SOCIAL SCIENCE	
(Minimum 9 hours)		(Minimum 9 hours)	
(Must be taken from more than one department)		(Must be taken from more than one department)	
(Maximum 3 hours in performance courses)		(Maximum 3 hours in performance courses)	
AMETH – AMETH 160 to 501		AMETH – AMETH 160 to 501	
ANTH – Any course		ANTH – Any course	
ARCH – ARCH 301		ARCH – ARCH 301	
ART – Any course		ART – Any course	
DANCE – DANCE 120 to 200, 225 to 420, 495 to 690		DANCE – DANCE 120 to 200, 225 to 420, 495 to 690	
DEN – DEN 325, 450		DEN – DEN 325, 450	
ECON - ECON 120-799		ECON - ECON 120-799	
ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799		ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799	

ENVD – ENVD 250, 251	ENVD – ENVD 250, 251
GEOG – GEOG 100, 200, 201, 300 to 799	GEOG – GEOG 100, 200, 201, 300 to 799
HIST – Any course	HIST – Any course
FSHS – Any course	FSHS – Any course
MUSIC – Any course	MUSIC – Any course
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU	Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU
PHILO – Any course	PHILO – Any course
POLSC – Any course	POLSC – Any course
PSYCH – Any course	PSYCH – Any course
SOCIO – Any course	SOCIO – Any course
SOCWK – Any course	SOCWK – Any course
DANCE – Any course	DANCE – Any course
THTRE – Any course	THTRE – Any course
WOMST – Any course	WOMST – Any course
BUSINESS & ECONOMICS	
ACCTG 231 Acctg for Bus Ops 3	ACCTG 231 Acctg for Bus Ops 3
ACCTG 241 Acctg for Inv & Fin 3	ACCTG 241 Acctg for Inv & Fin 3
(Minimum 18 hours)	
AGEC - AGECE 202 to 420, 445 to 799	AGEC - AGECE 202 to 420, 445 to 799
ACCTG – ACCTG 331 to 799	ACCTG – ACCTG 331 to 799
ECON – ECON 500 to 799	ECON – ECON 500 to 799
ENTRP – Any course	ENTRP – Any course
FINAN – Any course	FINAN – Any course
FSHS – FSHS 105 & 405	FSHS – FSHS 105 & 405
MANGT – Any course	MANGT – Any course
MKTG – Any course	MKTG – Any course
MATH/STATISTICS/COMPUTERS	
(Minimum 3 hours)	
ASI – ASI 490	ASI – ASI 490
CIS – CIS 101, 102, 103, 104	CIS – CIS 101, 102, 103, 104
MATH – MATH 150, 205, 210, 211, 220, 221, 222	MATH – MATH 150, 205, 210, 211, 220, 221, 222
STAT – STAT 320, 325, 330, 340, 350	STAT – STAT 320, 325, 330, 340, 350
COMMUNICATIONS	
(Select 1)	
AGCOM – AGCOM 310, 400, 410, 590, 610, 712	AGCOM – AGCOM 310, 400, 410, 590, 610, 712
ASI – 326, 420, 470, & 495	ASI – 326, 420, 470, & 495
COMM – COMM 311, 321, 322, 326	COMM – COMM 311, 321, 322, 326
ENGL – ENGL 300, 516	ENGL – ENGL 417, 510, 516
GENAG - 450	GENAG - 450
MC – MC 110, 111, 112, 120, 180	MC – MC 110, 111, 112, 120, 180
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU	Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU
ANIMAL SCIENCE	
ASI 102 Principles of Animal Science 3	ASI 102 Principles of Animal Science 3
ASI 318 Fund. of Nutrition 3	ASI 318 Fund. of Nutrition 3
ASI 320 Principles of Feeding 3	ASI 320 Principles of Feeding 3
ASI 400 Farm Animal Reproduction 3	ASI 400 Farm Animal Reproduction 3
ASI 580 ASI Seminar 1	ASI 580 ASI Seminar 1
(Select 2 courses)	
ASI 105 Animal Sciences & Ind 1	ASI 105 Animal Sciences & Ind 1
ASI 106 Dairy/Poultry Lab 1	ASI 106 Dairy/Poultry Lab 1
ASI 107 Companion Anml/Horse Lab 1	ASI 107 Companion Anml/Horse Lab 1
(Select 1 course)	

ASI	350	Meat Science	3	ASI	350	Meat Science	3
ASI	361	Meat Animal Processing	2	ASI	361	Meat Animal Processing	2
ASI	405	Fund Milk Processing	3	ASI	405	Fund Milk Processing	3
ASI	640	Poultry Product Tech	3	ASI	640	Poultry Product Tech	3
FDSCI	305	Fund of Food Processing	3	FDSCI	305	Fund of Food Processing	3
(Select 2 courses)				(Select 2 courses)			
ASI	515	Beef Science	3	ASI	515	Beef Science	3
ASI	520	Companion/Lab Anml Mngt	3	ASI	520	Companion/Lab Anml Mngt	3
ASI	521	Horse Science	3	ASI	521	Horse Science	3
ASI	524	Sheep/Meat Goat Science	3	ASI	524	Sheep/Meat Goat Science	3
ASI	535	Swine Science	3	ASI	535	Swine Science	3
ASI	621	Dairy Cattle Management	3	ASI	621	Dairy Cattle Management	3
ASI	645	Poultry Management	3	ASI	645	Poultry Management	3
(Minimum 9 hours)				(Minimum 9 hours)			
ASI	315	Livestock & Meat Eval	3	ASI	315	Livestock & Meat Eval	3
ASI	401	Farm Animal Repro Lab	1	ASI	401	Farm Animal Repro Lab	1
ASI	504	Equine Repro Mngt	3	ASI	504	Equine Repro Mngt	3
ASI	510	Animal Breeding Pr.	3	ASI	510	Animal Breeding Pr.	3
ASI	512	Bovine Repro Tech	2	ASI	512	Bovine Repro Tech	2
ASI	540	Principles of Animal Disease	3	ASI	540	Principles of Animal Disease	3
ASI	561	Undergrad Research in ASI	0-3	ASI	561	Undergrad Research in ASI	0-3
ASI	595	Contemp Issues ASI	3	ASI	595	Contemp Issues ASI	3
ASI	600	Applied Animal Biotech	2	ASI	600	Applied Animal Biotech	2
ASI	601	Physiology of Lactation	3	ASI	601	Physiology of Lactation	3
ASI	602	Equine Breeding/Genetics	2	ASI	602	Equine Breeding/Genetics	2
ASI	608	Dairy Foods Process & Technol	3	ASI	608	Dairy Foods Process & Technol	3
ASI	610	Processed Meat Ops	2	ASI	610	Processed Meat Ops	2
ASI	620	Lvstk Prod & Mngmt	2	ASI	620	Lvstk Prod & Mngmt	2
ASI	650	Id Data Management	2	ASI	650	Id Data Management	2
ASI	655	Behavior Domst Anml	3	ASI	655	Behavior Domst Anml	3
ASI	658	Animal Growth & Development	3	ASI	658	Animal Growth & Development	3
ASI	662	Special Topics Animal Science	0-6	ASI	662	Special Topics Animal Science	0-6
ASI	675-679	Non-Ruminant Modules	1-5	ASI	675-679	Non-Ruminant Modules	1-5
ASI	680-685	Ruminant Modules	1-6	ASI	680-685	Ruminant Modules	1-6
ASI	695	Equine Exercise Physiol	3	ASI	695	Equine Exercise Physiol	3
ASI	710	Phys Repro Farm Anml	3	ASI	710	Phys Repro Farm Anml	3
ASI	777	Meat Technology	3	ASI	777	Meat Technology	3
CS	610	Feedlot Health Systems	2	CS	610	Feedlot Health Systems	2
CS	611	Cow/Calf Health Systems	2	CS	611	Cow/Calf Health Systems	2
Total hours required for graduation (126 credit hours)				Total hours required for graduation (126 credit hours)			

RATIONALE: In the communications elective block in all 6 of the ASI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Animal Sciences & Industry Department agrees with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

B.S. in Agriculture: Animal Sciences and Industry: Production/Management Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
ASI	101	Animal Science Orientation -or-	1	ASI	101	Animal Science Orientation -or-	1
GENAG	200	College Careers	0	GENAG	200	College Careers	0
CHM	110	General Chemistry	3	CHM	110	General Chemistry	3
CHM	111	General Chemistry Lab	1	CHM	111	General Chemistry Lab	1
BIOL	198	Principles of Biology	4	BIOL	198	Principles of Biology	4
ECON	110	Prin Macro Economics	3	ECON	110	Prin Macro Economics	3
ENGL	100	Expository Writing I	3	ENGL	100	Expository Writing I	3
ENGL	200	Expository Writing II	3	ENGL	200	Expository Writing II	3
MATH	100	College Algebra	3	MATH	100	College Algebra	3
COMM	105	Public Speaking IA	2	COMM	105	Public Speaking IA	2
AGRICULTURE				AGRICULTURE			
AGEC	120	Ag Econ & Agribusiness	3	AGEC	120	Ag Econ & Agribusiness	3
(Plus 3 courses - 2 other AG Depts. min. 8 hours) (1 hour courses cannot be applied)				(Plus 3 courses - 2 other AG Depts. min. 8 hours) (1 hour courses cannot be applied)			
AGCOM – Any course in AGCOM				AGCOM – Any course in AGCOM			
AGEC – Any course in AGECE				AGEC – Any course in AGECE			
ASI – ASI 660				ASI – ASI 660			
ATM – Any course in ATM				ATM – Any course in ATM			
AGRON – Any course in AGRON				AGRON – Any course in AGRON			
ENTOM – Any course in ENTOM				ENTOM – Any course in ENTOM			
FDSCI – Any course in FDSCI				FDSCI – Any course in FDSCI			
GRSC – Any course in GRSC				GRSC – Any course in GRSC			
HORT – Any course in HORT				HORT – Any course in HORT			
FOR – Any course in FOR				FOR – Any course in FOR			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – Any course in PLPTH				PLPTH – Any course in PLPTH			
GENAG – GENAG 450, 505				GENAG – GENAG 450, 505			
BIOSCIENCES				BIOSCIENCES			
BIOCH	265	Intro Org & BioChem	5	BIOCH	265	Intro Org & BioChem	5
HUMANITIES/SOCIAL SCIENCE				HUMANITIES/SOCIAL SCIENCE			
(Minimum 9 hours) (Must be taken from more than one department) (Maximum 3 hours in performance courses)				(Minimum 9 hours) (Must be taken from more than one department) (Maximum 3 hours in performance courses)			
AMETH – AMETH 160 to 501				AMETH – AMETH 160 to 501			
ANTH – Any course				ANTH – Any course			
ARCH – ARCH 301				ARCH – ARCH 301			
ART – Any course				ART – Any course			
DANCE – DANCE 120 to 200, 225 to 420, 495 to 690				DANCE – DANCE 120 to 200, 225 to 420, 495 to 690			
DEN – DEN 325, 450				DEN – DEN 325, 450			
ECON - ECON 120-799				ECON - ECON 120-799			
ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799				ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799			
ENV D – ENV D 250, 251				ENV D – ENV D 250, 251			
GEOG – GEOG 100, 200, 201, 300 to 799				GEOG – GEOG 100, 200, 201, 300 to 799			
HIST – Any course				HIST – Any course			
FSHS – Any course				FSHS – Any course			
MUSIC – Any course				MUSIC – Any course			
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU				Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU			
PHILO – Any course				PHILO – Any course			

POLSC – Any course	POLSC – Any course
PSYCH – Any course	PSYCH – Any course
SOCIO – Any course	SOCIO – Any course
SOCWK – Any course	SOCWK – Any course
DANCE – Any course	DANCE – Any course
THTRE – Any course	THTRE – Any course
WOMST – Any course	WOMST – Any course
BUSINESS & ECONOMICS	BUSINESS & ECONOMICS
(Select 1 course)	(Select 1 course)
ACCTG 231 Acctg for Bus Ops 3	ACCTG 231 Acctg for Bus Ops 3
AGEC 308 Farm & Ranch Mngmt 3	AGEC 308 Farm & Ranch Mngmt 3
(plus 4 courses, min. 12 hours)	(plus 4 courses, min. 12 hours)
AGEC - AGECE 202 to 420, 445 to 799	AGEC - AGECE 202 to 420, 445 to 799
ACCTG – ACCTG 241 to 799	ACCTG – ACCTG 241 to 799
ECON – ECON 500 to 799	ECON – ECON 500 to 799
ENTRP – Any course	ENTRP – Any course
FINAN – Any course	FINAN – Any course
FSHS – FSHS 105 & 405	FSHS – FSHS 105 & 405
MANGT – Any course	MANGT – Any course
MKTG – Any course	MKTG – Any course
MATH/STATISTICS/COMPUTERS	MATH/STATISTICS/COMPUTERS
(Minimum 3 hours)	(Minimum 3 hours)
ASI – ASI 490	ASI – ASI 490
CIS – CIS 101, 102, 103, 104	CIS – CIS 101, 102, 103, 104
MATH – MATH 150, 205, 210, 211, 220, 221, 222	MATH – MATH 150, 205, 210, 211, 220, 221, 222
STAT – STAT 320, 325, 330, 340, 350	STAT – STAT 320, 325, 330, 340, 350
COMMUNICATIONS	COMMUNICATIONS
(Select 1)	(Select 1)
AGCOM – AGCOM 310, 400, 410, 590, 610, 712	AGCOM – AGCOM 310, 400, 410, 590, 610, 712
ASI – 326, 420, 470, & 495	ASI – 326, 420, 470, & 495
COMM – COMM 311, 321, 322, 326	COMM – COMM 311, 321, 322, 326
ENGL – ENGL 300, 516	ENGL – ENGL 417, 510, 516
GENAG - 450	GENAG - 450
MC – MC 110, 111, 112, 120, 180	MC – MC 110, 111, 112, 120, 180
Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU	Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU
ANIMAL SCIENCE	ANIMAL SCIENCE
ASI 102 Prin Animal Science 3	ASI 102 Prin Animal Science 3
ASI 318 Fund. of Nutrition 3	ASI 318 Fund. of Nutrition 3
ASI 320 Principles of Feeding 3	ASI 320 Principles of Feeding 3
ASI 400 Farm Animal Reproduction 3	ASI 400 Farm Animal Reproduction 3
ASI 500 Genetics 3	ASI 500 Genetics 3
ASI 510 Animal Breeding Pr. 3	ASI 510 Animal Breeding Pr. 3
ASI 533 Anatomy & Physiology 4	ASI 533 Anatomy & Physiology 4
ASI 580 ASI Seminar 1	ASI 580 ASI Seminar 1
(Select 2 courses)	(Select 2 courses)
ASI 105 Animal Sciences & Ind Lab 1	ASI 105 Animal Sciences & Ind Lab 1
ASI 106 Dairy/Poultry Lab 1	ASI 106 Dairy/Poultry Lab 1
ASI 107 Companion Anml/Horse Lab 1	ASI 107 Companion Anml/Horse Lab 1
(Select 1 course)	(Select 1 course)
ASI 350 Meat Science 3	ASI 350 Meat Science 3
ASI 361 Meat Animal Processing 2	ASI 361 Meat Animal Processing 2
ASI 405 Fund Milk Processing 3	ASI 405 Fund Milk Processing 3
ASI 640 Poultry Product Tech 3	ASI 640 Poultry Product Tech 3
FDSCI 305 Fund of Food Processing 3	FDSCI 305 Fund of Food Processing 3

(Select 2 courses)				(Select 2 courses)			
ASI	515	Beef Science	3	ASI	515	Beef Science	3
ASI	520	Companion/Lab Anml Mngt	3	ASI	520	Companion/Lab Anml Mngt	3
ASI	521	Horse Science	3	ASI	521	Horse Science	3
ASI	524	Sheep/Meat Goat Science	3	ASI	524	Sheep/Meat Goat Science	3
ASI	535	Swine Science	3	ASI	535	Swine Science	3
ASI	621	Dairy Cattle Management	3	ASI	621	Dairy Cattle Management	3
ASI	645	Poultry Management	3	ASI	645	Poultry Management	3
(Minimum 9 hours)				(Minimum 9 hours)			
ASI	315	Livestock & Meat Eval	3	ASI	315	Livestock & Meat Eval	3
ASI	401	Farm Animal Repro Lab	1	ASI	401	Farm Animal Repro Lab	1
ASI	504	Equine Repro Mngt	3	ASI	504	Equine Repro Mngt	3
ASI	512	Bovine Repro Tech	2	ASI	512	Bovine Repro Tech	2
ASI	540	Principles of Animal Disease	3	ASI	540	Principles of Animal Disease	3
ASI	561	Undergrad Research in ASI	0-3	ASI	561	Undergrad Research in ASI	0-3
ASI	595	Contemp Issues ASI	3	ASI	595	Contemp Issues ASI	3
ASI	600	Applied Animal Biotech	2	ASI	600	Applied Animal Biotech	2
ASI	601	Physiology of Lactation	3	ASI	601	Physiology of Lactation	3
ASI	602	Equine Breeding/Genetics	2	ASI	602	Equine Breeding/Genetics	2
ASI	608	Dairy Foods Process & Technol	3	ASI	608	Dairy Foods Process & Technol	3
ASI	610	Processed Meat Ops	2	ASI	610	Processed Meat Ops	2
ASI	620	Lvstk Prod & Mngmt	2	ASI	620	Lvstk Prod & Mngmt	2
ASI	650	Id Data Management	2	ASI	650	Id Data Management	2
ASI	655	Behavior of Domestic Animals	3	ASI	655	Behavior of Domestic Animals	3
ASI	658	Animal Growth & Development	3	ASI	658	Animal Growth & Development	3
ASI	662	Special Topics Animal Science	0-6	ASI	662	Special Topics Animal Science	0-6
ASI	675-679	Non-Ruminant Modules	1-5	ASI	675-679	Non-Ruminant Modules	1-5
ASI	680-685	Ruminant Modules	1-6	ASI	680-685	Ruminant Modules	1-6
ASI	695	Equine Exercise Physiol	3	ASI	695	Equine Exercise Physiol	3
ASI	710	Phys Repro Farm Anml	3	ASI	710	Phys Repro Farm Anml	3
ASI	777	Meat Technology	3	ASI	777	Meat Technology	3
CS	610	Feedlot Health Systems	2	CS	610	Feedlot Health Systems	2
CS	611	Cow/Calf Health Systems	2	CS	611	Cow/Calf Health Systems	2
Total hours required for graduation (126 credit hours)				Total hours required for graduation (126 credit hours)			

RATIONALE: In the communications elective block in all 6 of the ASI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Animal Sciences & Industry Department agrees with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

B.S. in Agriculture: Animal Sciences and Industry: Science/Pre-Vet Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
ASI	101	Animal Science Orientation -or-	1	ASI	101	Animal Science Orientation -or-	1
GENAG	200	College Careers	0	GENAG	200	College Careers	0
CHM	210	Chemistry I	4	CHM	210	Chemistry I	4
BIOL	198	Principles of Biology	4	BIOL	198	Principles of Biology	4
ECON	110	Prin Macro Economics	3	ECON	110	Prin Macro Economics	3
ENGL	100	Expository Writing I	3	ENGL	100	Expository Writing I	3
ENGL	200	Expository Writing II	3	ENGL	200	Expository Writing II	3
MATH	100	College Algebra	3	MATH	100	College Algebra	3
COMM	105	Public Speaking IA	2	COMM	105	Public Speaking IA	2
AGRICULTURE				AGRICULTURE			
(Plus 2 courses - 2 other AG Depts. min. 5 hours)				(Plus 2 courses - 2 other AG Depts. min. 5 hours)			
(1 hour courses cannot be applied)				(1 hour courses cannot be applied)			
AGCOM – Any course in AGCOM				AGCOM – Any course in AGCOM			
AGEC – Any course in AGECE				AGEC – Any course in AGECE			
ASI – ASI 660				ASI – ASI 660			
ATM – Any course in ATM				ATM – Any course in ATM			
AGRON – Any course in AGRON				AGRON – Any course in AGRON			
ENTOM – Any course in ENTOM				ENTOM – Any course in ENTOM			
FDSCI – Any course in FDSCI				FDSCI – Any course in FDSCI			
GRSC – Any course in GRSC				GRSC – Any course in GRSC			
HORT – Any course in HORT				HORT – Any course in HORT			
FOR – Any course in FOR				FOR – Any course in FOR			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – Any course in PLPTH				PLPTH – Any course in PLPTH			
GENAG – GENAG 450, 505				GENAG – GENAG 450, 505			
BIOSCIENCES				BIOSCIENCES			
BIOL	455	General Microbiology	4	BIOL	455	General Microbiology	4
(Minimum 12 hours)				(Minimum 12 hours)			
CHM	230	Chemistry II	4	CHM	230	Chemistry II	4
CHM	350	General Organic Chemistry	3	CHM	350	General Organic Chemistry	3
CHM	351	General Organic Chemistry Lab	2	CHM	351	General Organic Chemistry Lab	2
BIOCH	521	General Biochemistry	3	BIOCH	521	General Biochemistry	3
BIOCH	522	General Biochemistry Lab	2	BIOCH	522	General Biochemistry Lab	2
HUMANITIES/SOCIAL SCIENCE				HUMANITIES/SOCIAL SCIENCE			
(Minimum 9 hours)				(Minimum 9 hours)			
(Must be taken from more than one department)				(Must be taken from more than one department)			
(Maximum 3 hours in performance courses)				(Maximum 3 hours in performance courses)			
AMETH – AMETH 160 to 501				AMETH – AMETH 160 to 501			
ANTH – Any course				ANTH – Any course			
ARCH – ARCH 301				ARCH – ARCH 301			
ART – Any course				ART – Any course			
DANCE – DANCE 120 to 200, 225 to 420, 495 to 690				DANCE – DANCE 120 to 200, 225 to 420, 495 to 690			
DEN – DEN 325, 450				DEN – DEN 325, 450			
ECON - ECON 120-799				ECON - ECON 120-799			
ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799				ENGL – ENGL 150, 210 to 299, 310, 320 to 399, 420 to 499, 536 to 599, 605 to 660, 670 to 695, 700 to 760, 790 to 799			
ENVD – ENVD 250, 251GEOG – GEOG 100, 200, 201, 300 to 799				ENVD – ENVD 250, 251GEOG – GEOG 100, 200, 201, 300 to 799			
HIST – Any course				HIST – Any course			
FSHS – Any course				FSHS – Any course			

<p>MUSIC – Any course Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU PHILO – Any course POLSC – Any course PSYCH – Any course SOCIO – Any course SOCWK – Any course DANCE – Any course THTRE – Any course WOMST – Any course</p> <p style="text-align: center;">BUSINESS & ECONOMICS (2 courses, total 6 hours)</p> <p>AGEC - AGECE 202 to 420, 445 to 799 ACCTG – ACCTG 231 to 799 ENTRP – Any course FINAN – Any course FSHS – FSHS 105 & 205 MANGT – Any course MKTG – Any course</p> <p style="text-align: center;">PHYSICS/MATH/STATISTICS (Minimum 6 hours)</p> <p>MATH – MATH 150, 205, 210, 211, 220, 221, 222 PHYS – PHYS 113, 114 STAT – STAT 325, 340, 350</p> <p style="text-align: center;">COMMUNICATIONS (Select 1)</p> <p>AGCOM – AGCOM 310, 400, 410, 590, 610, 712 ASI – 326, 420, 470, & 495 COMM – COMM 311, 321, 322, 326 ENGL – ENGL 300, 516 GENAG - 450 MC – MC 110, 111, 112, 120, 180 Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU</p> <p style="text-align: center;">ANIMAL SCIENCE</p> <table border="0"> <tr><td>ASI</td><td>102</td><td>Prin Animal Science</td><td>3</td></tr> <tr><td>ASI</td><td>105</td><td>Animal Sciences & Ind Lab</td><td>1</td></tr> <tr><td>ASI</td><td>106</td><td>Dairy/Poultry Lab</td><td>1</td></tr> <tr><td>ASI</td><td>107</td><td>Comp Anml/Horse Lab</td><td>1</td></tr> <tr><td>ASI</td><td>318</td><td>Fund. of Nutrition</td><td>3</td></tr> <tr><td>ASI</td><td>320</td><td>Principles of Feeding</td><td>3</td></tr> <tr><td>ASI</td><td>400</td><td>Farm Animal Reproduction</td><td>3</td></tr> <tr><td>ASI</td><td>500</td><td>Genetics</td><td>3</td></tr> <tr><td>ASI</td><td>580</td><td>ASI Seminar</td><td>1</td></tr> </table> <p style="text-align: center;">(Select 1 course)</p> <table border="0"> <tr><td>ASI</td><td>350</td><td>Meat Science</td><td>3</td></tr> <tr><td>ASI</td><td>405</td><td>Fund Milk Processing</td><td>3</td></tr> <tr><td>ASI</td><td>361</td><td>Meat Animal Processing</td><td>2</td></tr> <tr><td>ASI</td><td>601</td><td>Physiology of Lactation</td><td>3</td></tr> <tr><td>ASI</td><td>640</td><td>Poultry Product Tech</td><td>3</td></tr> <tr><td>ASI</td><td>695</td><td>Equine Exercise Physiology</td><td>3</td></tr> <tr><td>FDSCI</td><td>305</td><td>Fund of Food Processing</td><td>3</td></tr> </table> <p style="text-align: center;">(Select 2 courses)</p>	ASI	102	Prin Animal Science	3	ASI	105	Animal Sciences & Ind Lab	1	ASI	106	Dairy/Poultry Lab	1	ASI	107	Comp Anml/Horse Lab	1	ASI	318	Fund. of Nutrition	3	ASI	320	Principles of Feeding	3	ASI	400	Farm Animal Reproduction	3	ASI	500	Genetics	3	ASI	580	ASI Seminar	1	ASI	350	Meat Science	3	ASI	405	Fund Milk Processing	3	ASI	361	Meat Animal Processing	2	ASI	601	Physiology of Lactation	3	ASI	640	Poultry Product Tech	3	ASI	695	Equine Exercise Physiology	3	FDSCI	305	Fund of Food Processing	3	<p>MUSIC – Any course Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU PHILO – Any course POLSC – Any course PSYCH – Any course SOCIO – Any course SOCWK – Any course DANCE – Any course THTRE – Any course WOMST – Any course</p> <p style="text-align: center;">BUSINESS & ECONOMICS (2 courses, total 6 hours)</p> <p>AGEC - AGECE 202 to 420, 445 to 799 ACCTG – ACCTG 231 to 799 ENTRP – Any course FINAN – Any course FSHS – FSHS 105 & 405 MANGT – Any course MKTG – Any course</p> <p style="text-align: center;">PHYSICS/MATH/STATISTICS (Minimum 6 hours)</p> <p>MATH – MATH 150, 205, 210, 211, 220, 221, 222 PHYS – PHYS 113, 114 STAT – STAT 325, 340, 350</p> <p style="text-align: center;">COMMUNICATIONS (Select 1)</p> <p>AGCOM – AGCOM 310, 400, 410, 590, 610, 712 ASI – 326, 420, 470, & 495 COMM – COMM 311, 321, 322, 326 ENGL – ENGL 417, 510, 516 GENAG - 450 MC – MC 110, 111, 112, 120, 180 Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU</p> <p style="text-align: center;">ANIMAL SCIENCE</p> <table border="0"> <tr><td>ASI</td><td>102</td><td>Prin Animal Science</td><td>3</td></tr> <tr><td>ASI</td><td>105</td><td>Animal Sciences & Ind Lab</td><td>1</td></tr> <tr><td>ASI</td><td>106</td><td>Dairy/Poultry Lab</td><td>1</td></tr> <tr><td>ASI</td><td>107</td><td>Comp Anml/Horse Lab</td><td>1</td></tr> <tr><td>ASI</td><td>318</td><td>Fund. of Nutrition</td><td>3</td></tr> <tr><td>ASI</td><td>320</td><td>Principles of Feeding</td><td>3</td></tr> <tr><td>ASI</td><td>400</td><td>Farm Animal Reproduction</td><td>3</td></tr> <tr><td>ASI</td><td>500</td><td>Genetics</td><td>3</td></tr> <tr><td>ASI</td><td>580</td><td>ASI Seminar</td><td>1</td></tr> </table> <p style="text-align: center;">(Select 1 course)</p> <table border="0"> <tr><td>ASI</td><td>350</td><td>Meat Science</td><td>3</td></tr> <tr><td>ASI</td><td>405</td><td>Fund Milk Processing</td><td>3</td></tr> <tr><td>ASI</td><td>361</td><td>Meat Animal Processing</td><td>2</td></tr> <tr><td>ASI</td><td>601</td><td>Physiology of Lactation</td><td>3</td></tr> <tr><td>ASI</td><td>640</td><td>Poultry Product Tech</td><td>3</td></tr> <tr><td>ASI</td><td>695</td><td>Equine Exercise Physiology</td><td>3</td></tr> <tr><td>FDSCI</td><td>305</td><td>Fund of Food Processing</td><td>3</td></tr> </table> <p style="text-align: center;">(Select 2 courses)</p>	ASI	102	Prin Animal Science	3	ASI	105	Animal Sciences & Ind Lab	1	ASI	106	Dairy/Poultry Lab	1	ASI	107	Comp Anml/Horse Lab	1	ASI	318	Fund. of Nutrition	3	ASI	320	Principles of Feeding	3	ASI	400	Farm Animal Reproduction	3	ASI	500	Genetics	3	ASI	580	ASI Seminar	1	ASI	350	Meat Science	3	ASI	405	Fund Milk Processing	3	ASI	361	Meat Animal Processing	2	ASI	601	Physiology of Lactation	3	ASI	640	Poultry Product Tech	3	ASI	695	Equine Exercise Physiology	3	FDSCI	305	Fund of Food Processing	3
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ASI	515	Beef Science	3	ASI	515	Beef Science	3
ASI	520	Companion/Lab Animal Mngt	3	ASI	520	Companion/Lab Animal Mngt	3
ASI	521	Horse Science	3	ASI	521	Horse Science	3
ASI	524	Sheep/Meat Goat Science	3	ASI	524	Sheep/Meat Goat Science	3
	3			ASI	535	Swine Science	3
ASI	535	Swine Science	3	ASI	621	Dairy Cattle Management	3
ASI	621	Dairy Cattle Management	3	ASI	645	Poultry Management	3
ASI	645	Poultry Management	3			(Minimum 9 hours)	
		(Minimum 9 hours)		ASI	315	Livestock & Meat Eval	3
ASI	315	Livestock & Meat Eval	3	ASI	401	Farm Animal Repro Lab	1
ASI	401	Farm Animal Repro Lab	1	ASI	504	Equine Repro Mngt	3
ASI	504	Equine Repro Mngt	3	ASI	510	Animal Breeding Pr.	3
ASI	510	Animal Breeding Pr.	3	ASI	512	Bovine Repro Tech	2
ASI	512	Bovine Repro Tech	2	ASI	533	Anatomy & Physiology	4
ASI	533	Anatomy & Physiology	4	ASI	540	Principles of Animal Disease	3
ASI	540	Principles of Animal Disease	3	ASI	561	Undergrad Research in ASI	0-3
ASI	561	Undergrad Research in ASI	0-3	ASI	595	Contemp Issues ASI	3
ASI	595	Contemp Issues ASI	3	ASI	600	Applied Animal Biotech	2
ASI	600	Applied Animal Biotech	2	ASI	602	Equine Breeding/Genetics	2
ASI	602	Equine Breeding/Genetics	2	ASI	608	Dairy Foods Process & Technol	3
ASI	608	Dairy Foods Process & Technol	3	ASI	610	Processed Meat Ops	2
ASI	610	Processed Meat Ops	2	ASI	620	Lvstk Prod & Mngmt	2
ASI	620	Lvstk Prod & Mngmt	2	ASI	650	ID Data Management	2
ASI	650	ID Data Management	2	ASI	655	Behavior of Domestic Animals	3
ASI	655	Behavior of Domestic Animals	3	ASI	658	Animal Growth & Development	3
ASI	658	Animal Growth & Development	3	ASI	662	Special Topics Animal Science	0-6
ASI	662	Special Topics Animal Science	0-6	ASI	675-679	Non-Ruminant Modules	1-5
ASI	675-679	Non-Ruminant Modules	1-5	ASI	680-685	Ruminant Modules	1-6
ASI	680-685	Ruminant Modules	1-6	ASI	710	Phys Repro Farm Anml	3
ASI	710	Phys Repro Farm Anml	3	ASI	777	Meat Technology	3
ASI	777	Meat Technology	3	CS	610	Feedlot Health Systems	2
CS	610	Feedlot Health Systems	2	CS	611	Cow/Calf Health Systems	2
CS	611	Cow/Calf Health Systems	2			Total hours required for graduation (126 credit hours)	
		Total hours required for graduation (126 credit hours)					

RATIONALE: In the communications elective block in all 6 of the ASI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Animal Sciences & Industry Department agrees with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

Food Science & Industry

B.S. in Food Science and Industry
Business & Operations Management Option

FROM:

TO:

<p>COMMUNICATIONS (10-12 credit hours) COMM 105 - Public Speaking IA (2) or COMM 106 - Public Speaking I (3) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) Additional Course in Communications (2-3 credit hours) Courses used to fulfill the 2-3 credit hours of communications electives cannot be used for professional elective. Any foreign language ASI 495 – Advanced Meat Evaluation (2) AGCOM 400 - Agricultural Business Communications (3) AGCOM 590 - New Media Technology (3) AGCOM 610 - Crisis Communication (3) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ENGL 300 – Expository Writing III (3) ENGL 516 - Written Comm for the Sciences (3) HMD 443 – Food Writing (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in a Free Society (3) MC 112 – Web Communications in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 542 - Professional Selling and Sales Management (3) SOCWK 612 – Fund Comm for Ag & Food Sci (3) SOCIAL SCIENCES & HUMANITIES (12 credit hours) ECON 110 - Principles of Macroeconomics (3) Humanities/social sciences courses (Select 9 hours) Suggested Courses (must be taken from more than one department): Art – any course Communication Studies, Theatre and Dance – any course Economics – any course between ECON 120- ECON 735 English – any, except ENGL 100 Expository Writing I and ENGL 200 Expository Writing II Family Studies and Human Services – any course Geography – any, except GEOG 221-Environmental</p>	<p>COMMUNICATIONS (10-12 credit hours) COMM 105 - Public Speaking IA (2) or COMM 106 - Public Speaking I (3) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) Additional Course in Communications (2-3 credit hours) Courses used to fulfill the 2-3 credit hours of communications electives cannot be used for professional elective. Any foreign language ASI 495 – Advanced Meat Evaluation (2) AGCOM 400 - Agricultural Business Communications (3) AGCOM 590 - New Media Technology (3) AGCOM 610 - Crisis Communication (3) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ENGL 300 – Expository Writing III (3) ENGL 417 – Written Comm for the Workplace (3) ENGL 510 – Intro to Professional Writing (3) ENGL 516 - Written Comm for the Sciences (3) HMD 443 – Food Writing (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in a Free Society (3) MC 112 – Web Communications in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 542 - Professional Selling and Sales Management (3) SOCWK 612 – Fund Comm for Ag & Food Sci (3) SOCIAL SCIENCES & HUMANITIES (12 credit hours) ECON 110 - Principles of Macroeconomics (3) Humanities/social sciences courses (Select 9 hours) Suggested Courses (must be taken from more than one department): Art – any course Communication Studies, Theatre and Dance – any course Economics – any course between ECON 120- ECON 735 English – any, except ENGL 100 Expository Writing I and ENGL 200 Expository Writing II Family Studies and Human Services – any course</p>
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<p>Geography I and GEOG 321-Environmental Geography II History – any course Music – any course Philosophy – any course Political Science – any course Psychology – any course Sociology, Anthropology, and Social Work – any course ARCH 301 -Appreciation of Architecture (3) WOMST 105 -Introduction to Women’s Studies (3)</p> <p>BIOLOGICAL SCIENCES (8 credit hours) BIOL 198 - Principles of Biology (4) BIOL 455 - General Microbiology (4)</p> <p>QUANTITATIVE STUDIES (9 credit hours) MATH 100 - College Algebra (3) MATH 205 - General Calculus and Linear Algebra (3) STAT 350 - Business and Economic Statistics I (3)</p> <p>PHYSICAL SCIENCES (13 credit hours) BIOCH 265 - Introductory Organic and Biochemistry (5) CHM 210 - Chemistry I (4) CHM 230 - Chemistry II (4)</p> <p>CORE FOOD SCIENCE COURSES (22-24 credit hours) Must have 2.0 GPA average. FDSCI 302 - Introduction to Food Science (3) FDSCI 305 - Fundamentals of Food Processing (3) FDSCI 500 - Food Science Seminar (1) FDSCI 600 – Food Microbiology (2) FDSCI 601 – Food Microbiology Lab (2) FDSCI 690 - Principles of HACCP (2) HN 132 - Basic Nutrition (3) Select One FDSCI 695 - Quality Assurance of Food Products (3) or FDSCI 740 - Research and Development of Food Products (4) Select One FDSCI 501 - Food Chemistry (3) or HN 413 - Science of Food (4)</p> <p>PROCESSING ELECTIVES (Minimum 8 hours) Must have 8 hours of processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Other professional electives can be substituted as appropriate. Courses used to fulfill the 8 credit hours of processing electives cannot be used for professional elective.</p> <p>Processing Electives ASI 310 - Poultry and Poultry Product Evaluation (2)</p>	<p>Geography – any, except GEOG 221-Environmental Geography I and GEOG 321-Environmental Geography II History – any course Music – any course Philosophy – any course Political Science – any course Psychology – any course Sociology, Anthropology, and Social Work – any course ARCH 301 -Appreciation of Architecture (3) WOMST 105 -Introduction to Women’s Studies (3)</p> <p>BIOLOGICAL SCIENCES (8 credit hours) BIOL 198 - Principles of Biology (4) BIOL 455 - General Microbiology (4)</p> <p>QUANTITATIVE STUDIES (9 credit hours) MATH 100 - College Algebra (3) MATH 205 - General Calculus and Linear Algebra (3) STAT 350 - Business and Economic Statistics I (3)</p> <p>PHYSICAL SCIENCES (13 credit hours) BIOCH 265 - Introductory Organic and Biochemistry (5) CHM 210 - Chemistry I (4) CHM 230 - Chemistry II (4)</p> <p>CORE FOOD SCIENCE COURSES (22-24 credit hours) Must have 2.0 GPA average. FDSCI 302 - Introduction to Food Science (3) FDSCI 305 - Fundamentals of Food Processing (3) FDSCI 500 - Food Science Seminar (1) FDSCI 600 – Food Microbiology (2) FDSCI 601 – Food Microbiology Lab (2) FDSCI 690 - Principles of HACCP (2) HN 132 - Basic Nutrition (3) Select One FDSCI 695 - Quality Assurance of Food Products (3) or FDSCI 740 - Research and Development of Food Products (4) Select One FDSCI 501 - Food Chemistry (3) or HN 413 - Science of Food (4)</p> <p>PROCESSING ELECTIVES (Minimum 8 hours) Must have 8 hours of processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Other professional electives can be substituted as appropriate. Courses used to fulfill the 8 credit hours of processing electives cannot be used for professional elective.</p> <p>Processing Electives ASI 310 - Poultry and Poultry Product Evaluation</p>
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<p>ASI 350 - Meat Science (3) ASI 361 - Meat Animal Processing (2) ASI 370 - Principles of Meat Evaluation (2) ASI 405 - Fundamentals of Milk Processing (3) ASI 495 - Advanced Meat Evaluation (2) ASI 608 - Dairy Foods Processing & Technology (3) ASI 610 - Processed Meat Operations (2) ASI 640 - Poultry Products Technology (3) ASI 671 - Meat Selection and Utilization (2) ASI 777 - Meat Technology (3) FDSCI 660 - International Study Experience in Food Science (0-6) GRSC 101 - Introduction to Grain Science and Industry (3) GRSC 150 - Principles of Milling (2) GRSC 151 - Principles of Milling Laboratory (1) GRSC 405 - Grain Analysis Techniques (2) GRSC 602 - Cereal Science (3) GRSC 625 - Flour and Dough Testing (3) GRSC 635 - Baking Science I (2) GRSC 636 - Baking Science I Laboratory (2) GRSC 637 - Baking Science II (3) GRSC 638 - Baking Science II Laboratory (1) HORT 325 – Introduction to Organic Farming (2)</p> <p>BUSINESS & ECON ELECTIVES (Minimum 18 hours)</p> <p>Courses used to fulfill the 18 credit hours of business/management & economics electives cannot be used for professional elective. Students are strongly encouraged to complete a minor in either Business Administration, Agricultural Economics or Agricultural Business.</p> <p>ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3) AGEC 202 – Small Business Operations (3) AGEC 220 – Grain and Livestock Marketing 3 AGEC 308 - Farm and Ranch Management (3) AGEC 315 – Contemporary Issues in Global Food and Agriculture (3) AGEC 318 - Food and Agribusiness Management (3) AGEC 410 - Agricultural Policy (3) AGEC 420 - Commodity Futures (3) AGEC 500 – Production Economics (3) AGEC 505 - Agricultural Market Structures (3) AGEC 513 – Agriculture Finance (3) AGEC 515 - Food and Agribusiness Marketing (3) AGEC 516 - Agricultural Law and Economics (3) AGEC 520 - Market Fundamentals and Futures/Options Trading (3) AGEC 570 - Food Manufacturing, Distribution and Retailing (3) AGEC 599 - Food and Agribusiness Management</p>	<p>(2) ASI 350 - Meat Science (3) ASI 361 - Meat Animal Processing (2) ASI 370 - Principles of Meat Evaluation (2) ASI 405 - Fundamentals of Milk Processing (3) ASI 495 - Advanced Meat Evaluation (2) ASI 608 - Dairy Foods Processing & Technology (3) ASI 610 - Processed Meat Operations (2) ASI 640 - Poultry Products Technology (3) ASI 671 - Meat Selection and Utilization (2) ASI 777 - Meat Technology (3) FDSCI 660 - International Study Experience in Food Science (0-6) GRSC 101 - Introduction to Grain Science and Industry (3) GRSC 150 - Principles of Milling (2) GRSC 151 - Principles of Milling Laboratory (1) GRSC 405 - Grain Analysis Techniques (2) GRSC 602 - Cereal Science (3) GRSC 625 - Flour and Dough Testing (3) GRSC 635 - Baking Science I (2) GRSC 636 - Baking Science I Laboratory (2) GRSC 637 - Baking Science II (3) GRSC 638 - Baking Science II Laboratory (1) HORT 325 – Introduction to Organic Farming (2)</p> <p>BUSINESS & ECON ELECTIVES (Minimum 18 hours)</p> <p>Courses used to fulfill the 18 credit hours of business/management & economics electives cannot be used for professional elective. Students are strongly encouraged to complete a minor in either Business Administration, Agricultural Economics or Agricultural Business.</p> <p>ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3) AGEC 202 – Small Business Operations (3) AGEC 220 – Grain and Livestock Marketing 3 AGEC 308 - Farm and Ranch Management (3) AGEC 315 – Contemporary Issues in Global Food and Agriculture (3) AGEC 318 - Food and Agribusiness Management (3) AGEC 410 - Agricultural Policy (3) AGEC 420 - Commodity Futures (3) AGEC 500 – Production Economics (3) AGEC 505 - Agricultural Market Structures (3) AGEC 513 – Agriculture Finance (3) AGEC 515 - Food and Agribusiness Marketing (3) AGEC 516 - Agricultural Law and Economics (3) AGEC 520 - Market Fundamentals and Futures/Options Trading (3) AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</p>
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<p>Strategies (3) AGEC 605 - Price Analysis and Forecasting (3) AGEC 623 - International Agricultural Trade (3) AGEC 632 - Agribusiness Logistics (3) AGEC 680 - Risk Management (3) AGEC 120 - Agricultural Economics and Agribusiness (3) or ECON 120 - Principles of Microeconomics (3) ECON 510 – Intermediate Macro Economics (3) ECON 520 - Intermediate Microeconomics (3) FINAN 450 - Principles of Finance (3) MANGT 300 - Introduction to Total Quality Management (1) MANGT 366 - Information Technology for Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3) MANGT 421 - Introduction to Operations Management (3) MANGT 530 - Industrial and Labor Relations (3) MANGT 531 - Human Resources Management (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing (3) MKTG 542 - Professional Selling and Sales Management (3)</p> <p>PROFESSIONAL ELECTIVES (Minimum 14 credit hours)</p> <p>ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3) AGCOM 400 - Agricultural Business Communications (3) AGCOM 590 - New Media Technology (3) AGCOM 610 - Crisis Communication (3) AGEC 120 – Ag Econ & Agribusiness (3) AGEC 202 – Small Business Operations (3) AGEC 220 – Grain and Livestock Marketing 3 AGEC 308 - Farm and Ranch Management (3) AGEC 315 – Contemporary Issues in Global Food and Agriculture (3) AGEC 318 - Food and Agribusiness Management (3) AGEC 410 - Agricultural Policy (3) AGEC 420 - Commodity Futures (3) AGEC 500 – Production Economics (3) AGEC 505 - Agricultural Market Structures (3) AGEC 513 – Agriculture Finance (3) AGEC 515 - Food and Agribusiness Marketing (3) AGEC 516 - Agricultural Law and Economics (3) AGEC 520 - Market Fundamentals and Futures/Options Trading (3) AGEC 570 - Food Manufacturing, Distribution and Retailing (3) AGEC 599 - Food and Agribusiness Management</p>	<p>AGEC 599 - Food and Agribusiness Management Strategies (3) AGEC 605 - Price Analysis and Forecasting (3) AGEC 623 - International Agricultural Trade (3) AGEC 632 - Agribusiness Logistics (3) AGEC 680 - Risk Management (3) AGEC 120 - Agricultural Economics and Agribusiness (3) or ECON 120 - Principles of Microeconomics (3) ECON 510 – Intermediate Macro Economics (3) ECON 520 - Intermediate Microeconomics (3) FINAN 450 - Principles of Finance (3) MANGT 300 - Introduction to Total Quality Management (1) MANGT 366 - Information Technology for Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3) MANGT 421 - Introduction to Operations Management (3) MANGT 530 - Industrial and Labor Relations (3) MANGT 531 - Human Resources Management (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing (3) MKTG 542 - Professional Selling and Sales Management (3)</p> <p>PROFESSIONAL ELECTIVES (Minimum 14 credit hours)</p> <p>ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3) AGCOM 400 - Agricultural Business Communications (3) AGCOM 590 - New Media Technology (3) AGCOM 610 - Crisis Communication (3) AGEC 120 – Ag Econ & Agribusiness (3) AGEC 202 – Small Business Operations (3) AGEC 220 – Grain and Livestock Marketing 3 AGEC 308 - Farm and Ranch Management (3) AGEC 315 – Contemporary Issues in Global Food and Agriculture (3) AGEC 318 - Food and Agribusiness Management (3) AGEC 410 - Agricultural Policy (3) AGEC 420 - Commodity Futures (3) AGEC 500 – Production Economics (3) AGEC 505 - Agricultural Market Structures (3) AGEC 513 – Agriculture Finance (3) AGEC 515 - Food and Agribusiness Marketing (3) AGEC 516 - Agricultural Law and Economics (3) AGEC 520 - Market Fundamentals and Futures/Options Trading (3) AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</p>
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<p>Strategies (3) AGEC 605 - Price Analysis and Forecasting (3) AGEC 623 - International Agricultural Trade (3) AGEC 632 - Agribusiness Logistics (3) AGEC 680 - Risk Management (3) AGEC 120 - Agricultural Economics and Agribusiness (3) AGRON 335 - Environmental Quality (3) ASI 290 - Microcomputer Applications in Animal Sciences and Industry (3) ASI 303 - History and Attitudes of Animal Use (3) ASI 315 - Livestock and Meat Evaluation (3) ASI 495 – Advanced Meat Evaluation (2) ASI 500 - Genetics (3) ASI 533 - Anatomy and Physiology (4) ASI 595 - Contemporary Issues in Animal Science and Agriculture (3) ASI 645 - Poultry Management (3) ASI 660 – International Experience in ASI (3) ATM 160 - Engineered Systems and Technology in Agriculture (3) ATM 450 - Sensors and Controls for Agricultural and Biological Systems (3) BIOL 350 – Public Health Biology (3) CIS 101 - Introduction to Computing Systems, Information Search, and Security (1) CIS 102 - Introduction to Spreadsheet Applications (1) CIS 103 - Introduction to Database Applications (1) CIS 104 - Introduction to Word Processing Applications (1) CIS 105 - Introduction to Computer Programming (1) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ECON 120- Prin Micro Economics (3) ECON 510 – Intermediate Macro Economics (3) ECON 520 - Intermediate Microeconomics (3) ENGL 300 - Expository Writing III (3) ENGL 516 - Written Communication for the Sciences (3) FDSCI 430 - Food Products Evaluation (3) FDSCI 530 – Undergraduate Research in Food Science (0-3) FDSCI 603 - Food Science Internship (1-6) FDSCI 630 - Food Science Problems (Variable) FDSCI 710 – Kosher & Halal Food Regulations (2) FDSCI 713 - Rapid Methods and Automation in Microbiology (2) FDSCI 730 – A Multidisciplinary Overview of Food Safety and Security (2) FDSCI 731 – Food Prot and Def:Essential Concepts</p>	<p>AGEC 599 - Food and Agribusiness Management Strategies (3) AGEC 605 - Price Analysis and Forecasting (3) AGEC 623 - International Agricultural Trade (3) AGEC 632 - Agribusiness Logistics (3) AGEC 680 - Risk Management (3) AGEC 120 - Agricultural Economics and Agribusiness (3) AGRON 335 - Environmental Quality (3) ASI 290 - Microcomputer Applications in Animal Sciences and Industry (3) ASI 303 - History and Attitudes of Animal Use (3) ASI 315 - Livestock and Meat Evaluation (3) ASI 495 – Advanced Meat Evaluation (2) ASI 500 - Genetics (3) ASI 533 - Anatomy and Physiology (4) ASI 595 - Contemporary Issues in Animal Science and Agriculture (3) ASI 645 - Poultry Management (3) ASI 660 – International Experience in ASI (3) ATM 160 - Engineered Systems and Technology in Agriculture (3) ATM 450 - Sensors and Controls for Agricultural and Biological Systems (3) BIOL 350 – Public Health Biology (3) CIS 101 - Introduction to Computing Systems, Information Search, and Security (1) CIS 102 - Introduction to Spreadsheet Applications (1) CIS 103 - Introduction to Database Applications (1) CIS 104 - Introduction to Word Processing Applications (1) CIS 105 - Introduction to Computer Programming (1) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ECON 120- Prin Micro Economics (3) ECON 510 – Intermediate Macro Economics (3) ECON 520 - Intermediate Microeconomics (3) ENGL 300 - Expository Writing III (3) ENGL 516 - Written Communication for the Sciences (3) FDSCI 430 - Food Products Evaluation (3) FDSCI 530 – Undergraduate Research in Food Science (0-3) FDSCI 603 - Food Science Internship (1-6) FDSCI 630 - Food Science Problems (Variable) FDSCI 710 – Kosher & Halal Food Regulations (2) FDSCI 713 - Rapid Methods and Automation in Microbiology (2) FDSCI 730 – A Multidisciplinary Overview of Food Safety and Security (2)</p>
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<p>(2) FDSCI 791 - Advanced Application of HACCP Principles (3) FINAN 450 - Principles of Finance (3) GENAG 210 – Human and Cultural Diversity in Food and Agricultural Sciences (3) GENAG 711 – Occupational & Ag Health (3) GENAG 721 – Occupational & Ag Safety & Health (3) GRSC 540 - Engineering Applications to Grain/Food Products (3) GRSC 541 - Engineering Applications to Grain/Food Products Laboratory (1) GRSC 651 - Food and Feed Product Protection (4) GRSC 561 - Qualities of Food and Feed Ingredients (3) HMD 443 – Food Writing (3) HN 301 - Food Trends, Legislation, & Regulation (3) HN 352 - Personal Wellness (3) HN 701 - Sensory Analysis (3) HMD 220 – Environmental Issues in Hospitality (3) HMD 341 – Principles of Food Production Management (3) HMD 442 – Introduction to Wines (1) HORT 780 – Health Promoting Phytochemicals:Fruits and Vegetables (2) LEAD 212 – Intro to Leadership Concepts (3) MANGT 300 - Introduction to Total Quality Management (1) MANGT 366 - Information Technology for Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3) MANGT 421 - Introduction to Operations Management (3) MANGT 530 - Industrial and Labor Relations (3) MANGT 531 - Human Resources Management (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in a Free Society (3) MC 112 – Web Communications in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing (3) MKTG 542 - Professional Selling and Sales Management (3) Any foreign language. PHYS 113 – General Physics I (4) PHYS 114 – General Physics II (4) SOCWK 612 – Fund Comm for Ag & Food Sci (3) STAT 341 - Biometrics II (3) STAT 351 – Business & Econ Stat II (3)</p>	<p>FDSCI 731 – Food Prot and Def:Essential Concepts (2) FDSCI 791 - Advanced Application of HACCP Principles (3) FINAN 450 - Principles of Finance (3) GENAG 210 – Human and Cultural Diversity in Food and Agricultural Sciences (3) GENAG 711 – Occupational & Ag Health (3) GENAG 721 – Occupational & Ag Safety & Health (3) GRSC 540 - Engineering Applications to Grain/Food Products (3) GRSC 541 - Engineering Applications to Grain/Food Products Laboratory (1) GRSC 651 - Food and Feed Product Protection (4) GRSC 561 - Qualities of Food and Feed Ingredients (3) HMD 443 – Food Writing (3) HN 301 - Food Trends, Legislation, & Regulation (3) HN 352 - Personal Wellness (3) HN 701 - Sensory Analysis (3) HMD 220 – Environmental Issues in Hospitality (3) HMD 341 – Principles of Food Production Management (3) HMD 442 – Introduction to Wines (1) HORT 780 – Health Promoting Phytochemicals:Fruits and Vegetables (2) LEAD 212 – Intro to Leadership Concepts (3) MANGT 300 - Introduction to Total Quality Management (1) MANGT 366 - Information Technology for Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3) MANGT 421 - Introduction to Operations Management (3) MANGT 530 - Industrial and Labor Relations (3) MANGT 531 - Human Resources Management (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in a Free Society (3) MC 112 – Web Communications in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing (3) MKTG 542 - Professional Selling and Sales Management (3) Any foreign language. PHYS 113 – General Physics I (4) PHYS 114 – General Physics II (4) SOCWK 612 – Fund Comm for Ag & Food Sci (3) STAT 341 - Biometrics II (3) STAT 351 – Business & Econ Stat II (3)</p>
<p>UNRESTRICTED ELECTIVES (7-12 credit hours)</p>	<p>UNRESTRICTED ELECTIVES (7-12 credit hours)</p>

Total hours required for graduation (126 credit hours)	Total hours required for graduation (126 credit hours)
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RATIONALE: In the communications elective block in both of the FDSCI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Food Science faculty and the Animal Sciences & Industry Department agree with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

B.S. in Food Science and Industry
Science Option

FROM:

TO:

<p>COMMUNICATIONS (10-12 credit hours) COMM 105 - Public Speaking IA (2) or COMM 106 - Public Speaking I (3) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3)</p> <p>Additional Course in Communications (2-3 credit hours) Courses used to fulfill the 2-3 credit hours of communications electives cannot be used for professional elective.</p> <p>Any foreign language ASI 495 – Advanced Meat Evaluation (2) AGCOM 400 - Agricultural Business Communications (3) AGCOM 590 - New Media Technology (3) AGCOM 610 - Crisis Communication (3) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ENGL 300 – Expository Writing III (3) ENGL 516 - Written Communication for the Sciences (3) HMD 443 – Food Writing (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in a Free Society (3) MC 112 – Web Communications in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 542 - Professional Selling and Sales Management (3)</p>	<p>COMMUNICATIONS (10-12 credit hours) COMM 105 - Public Speaking IA (2) or COMM 106 - Public Speaking I (3) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3)</p> <p>Additional Course in Communications (2-3 credit hours) Courses used to fulfill the 2-3 credit hours of communications electives cannot be used for professional elective.</p> <p>Any foreign language ASI 495 – Advanced Meat Evaluation (2) AGCOM 400 - Agricultural Business Communications (3) AGCOM 590 - New Media Technology (3) AGCOM 610 - Crisis Communication (3) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ENGL 300 – Expository Writing III (3) ENGL 516 - Written Communication for the Sciences (3) ENGL 417 – Written Comm for the Workplace (3) ENGL 510 – Intro to Professional Writing (3) ENGL 516 - Written Communication for the Sciences (3) HMD 443 – Food Writing (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in a Free Society (3) MC 112 – Web Communications in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 542 - Professional Selling and Sales Management (3)</p>
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<p>SOCWK 612 – Fund Comm for Ag & Food Sci (3)</p> <p>SOCIAL SCIENCES & HUMANITIES (12 credit hours)</p> <p>ECON 110 - Principles of Macroeconomics (3)</p> <p>Humanities/social sciences courses (9 credit hours)</p> <p>Suggested Courses (must be taken from more than one department):</p> <p>Art – any course</p> <p>Communication Studies, Theatre and Dance – any course</p> <p>Economics – any course between ECON 120-ECON 735</p> <p>English – any, except ENGL 100 Expository Writing I and ENGL 200 Expository Writing II</p> <p>Family Studies and Human Services – any course</p> <p>Geography – any, except GEOG 221-Environmental Geography I and GEOG 321-Environmental Geography II</p> <p>History – any course</p> <p>Music – any course</p> <p>Philosophy – any course</p> <p>Political Science – any course</p> <p>Psychology – any course</p> <p>Sociology, Anthropology, and Social Work – any course</p> <p>ARCH 301 -Appreciation of Architecture (3)</p> <p>WOMST 105 -Introduction to Women’s Studies (3)</p> <p>QUANTITATIVE STUDIES (13 credit hours)</p> <p>MATH 100 - College Algebra (3)</p> <p>MATH 220 - Analytic Geometry and Calculus I (4)</p> <p>Select One</p> <p>STAT 325 - Introduction to Statistics (3)</p> <p>or</p> <p>STAT 340 - Biometrics I (3)</p> <p>or</p> <p>STAT 350 - Business and Economic Statistics I (3)</p> <p>Select One</p> <p>STAT 341 - Biometrics II (3)</p> <p>or</p> <p>STAT 351 - Business and Economic Statistics II (3)</p> <p>BIOLOGICAL SCIENCES (8 credit hours)</p> <p>BIOL 198 - Principles of Biology (4)</p> <p>BIOL 455 - General Microbiology (4)</p> <p>PHYSICAL SCIENCES (23 credit hours)</p> <p>BIOCH 521 - General Biochemistry (3)</p> <p>and</p> <p>BIOCH 522 - General Biochemistry Laboratory (2)</p> <p>CHM 210 - Chemistry I (4)</p> <p>CHM 230 - Chemistry II (4)</p> <p>CHM 350 - General Organic Chemistry (3)</p> <p>and</p> <p>CHM 351 - General Organic Chemistry Laboratory (2)</p> <p>PHYS 113 – Physics I (4) –OR-</p> <p>PHYS 115 - Descriptive Physics (5)</p> <p>CORE FOOD SCIENCE COURSES (30-31 credit</p>	<p>Management (3)</p> <p>SOCWK 612 – Fund Comm for Ag & Food Sci (3)</p> <p>SOCIAL SCIENCES & HUMANITIES (12 credit hours)</p> <p>ECON 110 - Principles of Macroeconomics (3)</p> <p>Humanities/social sciences courses (9 credit hours)</p> <p>Suggested Courses (must be taken from more than one department):</p> <p>Art – any course</p> <p>Communication Studies, Theatre and Dance – any course</p> <p>Economics – any course between ECON 120-ECON 735</p> <p>English – any, except ENGL 100 Expository Writing I and ENGL 200 Expository Writing II</p> <p>Family Studies and Human Services – any course</p> <p>Geography – any, except GEOG 221-Environmental Geography I and GEOG 321-Environmental Geography II</p> <p>History – any course</p> <p>Music – any course</p> <p>Philosophy – any course</p> <p>Political Science – any course</p> <p>Psychology – any course</p> <p>Sociology, Anthropology, and Social Work – any course</p> <p>ARCH 301 -Appreciation of Architecture (3)</p> <p>WOMST 105 -Introduction to Women’s Studies (3)</p> <p>QUANTITATIVE STUDIES (13 credit hours)</p> <p>MATH 100 - College Algebra (3)</p> <p>MATH 220 - Analytic Geometry and Calculus I (4)</p> <p>Select One</p> <p>STAT 325 - Introduction to Statistics (3)</p> <p>or</p> <p>STAT 340 - Biometrics I (3)</p> <p>or</p> <p>STAT 350 - Business and Economic Statistics I (3)</p> <p>Select One</p> <p>STAT 341 - Biometrics II (3)</p> <p>or</p> <p>STAT 351 - Business and Economic Statistics II (3)</p> <p>BIOLOGICAL SCIENCES (8 credit hours)</p> <p>BIOL 198 - Principles of Biology (4)</p> <p>BIOL 455 - General Microbiology (4)</p> <p>PHYSICAL SCIENCES (23 credit hours)</p> <p>BIOCH 521 - General Biochemistry (3)</p> <p>and</p> <p>BIOCH 522 - General Biochemistry Laboratory (2)</p> <p>CHM 210 - Chemistry I (4)</p> <p>CHM 230 - Chemistry II (4)</p> <p>CHM 350 - General Organic Chemistry (3)</p> <p>and</p> <p>CHM 351 - General Organic Chemistry Laboratory (2)</p> <p>PHYS 113 – Physics I (4) –OR-</p> <p>PHYS 115 - Descriptive Physics (5)</p>
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<p>hours) Must have 2.0 GPA average. FDSCI 302 - Introduction to Food Science (3) FDSCI 305 - Fundamentals of Food Processing (3) FDSCI 500 - Food Science Seminar (1) FDSCI 501 - Food Chemistry (3) FDSCI 600 - Food Microbiology (2) FDSCI 601 – Food Microbiology Lab (2) FDSCI 690 - Principles of HACCP (2) FDSCI 727 - Chemical Methods of Food Analysis (2) FDSCI 728 - Physical Methods of Food Analysis (2) GRSC 540 - Engineering Applications to Grain/Food Products (3) GRSC 541 - Engineering Applications to Grain/Food Products Laboratory (1) HN 132 - Basic Nutrition (3)</p> <p>Select One FDSCI 695 - Quality Assurance of Food Products (3) or FDSCI 740 - Research and Development of Food Products (4)</p> <p>PROCESSING ELECTIVES (Minimum 8 hours) Must have 8 hours of processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Courses used to fulfill the 8 credit hours of processing electives cannot be used for professional elective. ASI 310 - Poultry and Poultry Product Evaluation (2) ASI 350 - Meat Science (3) ASI 361 - Meat Animal Processing (2) ASI 370 - Principles of Meat Evaluation (2) ASI 405 - Fundamentals of Milk Processing (3) ASI 495 - Advanced Meat Evaluation (2) ASI 608 - Dairy Foods Processing & Technology (3) ASI 610 - Processed Meat Operations (2) ASI 640 - Poultry Products Technology (3) ASI 671 - Meat Selection and Utilization (2) ASI 777 - Meat Technology (3) FDSCI 660 - International Study Experience in Food Science (0-6) GRSC 101 - Introduction to Grain Science and Industry (3) GRSC 150 - Principles of Milling (2) GRSC 151 - Principles of Milling Laboratory (1) GRSC 405 - Grain Analysis Techniques (2) GRSC 602 - Cereal Science (3) GRSC 625 - Flour and Dough Testing (3) GRSC 635 - Baking Science I (2) GRSC 636 - Baking Science I Laboratory (2) GRSC 637 - Baking Science II (3) GRSC 638 - Baking Science II Laboratory (1)</p>	<p>CORE FOOD SCIENCE COURSES (30-31 credit hours) Must have 2.0 GPA average. FDSCI 302 - Introduction to Food Science (3) FDSCI 305 - Fundamentals of Food Processing (3) FDSCI 500 - Food Science Seminar (1) FDSCI 501 - Food Chemistry (3) FDSCI 600 - Food Microbiology (2) FDSCI 601 – Food Microbiology Lab (2) FDSCI 690 - Principles of HACCP (2) FDSCI 727 - Chemical Methods of Food Analysis (2) FDSCI 728 - Physical Methods of Food Analysis (2) GRSC 540 - Engineering Applications to Grain/Food Products (3) GRSC 541 - Engineering Applications to Grain/Food Products Laboratory (1) HN 132 - Basic Nutrition (3)</p> <p>Select One FDSCI 695 - Quality Assurance of Food Products (3) or FDSCI 740 - Research and Development of Food Products (4)</p> <p>PROCESSING ELECTIVES (Minimum 8 hours) Must have 8 hours of processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Courses used to fulfill the 8 credit hours of processing electives cannot be used for professional elective. ASI 310 - Poultry and Poultry Product Evaluation (2) ASI 350 - Meat Science (3) ASI 361 - Meat Animal Processing (2) ASI 370 - Principles of Meat Evaluation (2) ASI 405 - Fundamentals of Milk Processing (3) ASI 495 - Advanced Meat Evaluation (2) ASI 608 - Dairy Foods Processing & Technology (3) ASI 610 - Processed Meat Operations (2) ASI 640 - Poultry Products Technology (3) ASI 671 - Meat Selection and Utilization (2) ASI 777 - Meat Technology (3) FDSCI 660 - International Study Experience in Food Science (0-6) GRSC 101 - Introduction to Grain Science and Industry (3) GRSC 150 - Principles of Milling (2) GRSC 151 - Principles of Milling Laboratory (1) GRSC 405 - Grain Analysis Techniques (2) GRSC 602 - Cereal Science (3) GRSC 625 - Flour and Dough Testing (3) GRSC 635 - Baking Science I (2) GRSC 636 - Baking Science I Laboratory (2) GRSC 637 - Baking Science II (3)</p>
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<p>HORT 325 – Introduction to Organic Farming (3)</p> <p>PROFESSIONAL ELECTIVES (Minimum 12 hours)</p> <p>ACCTG 231 - Accounting for Business Operations (3)</p> <p>ACCTG 241 - Accounting for Investing and Financing (3)</p> <p>AGCOM 400 - Agricultural Business Communications (3)</p> <p>AGCOM 590 - New Media Technology (3)</p> <p>AGCOM 610 - Crisis Communication (3)</p> <p>AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p>AGEC 202 – Small Business Ops (3)</p> <p>AGEC 220 – Grain and Livestock Marketing 3</p> <p>AGEC 308 - Farm and Ranch Management (3)</p> <p>AGEC 315 – Contemporary Issues in Global Food and Agriculture (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 410 - Agricultural Policy (3)</p> <p>AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3)</p> <p>AGEC 420 - Commodity Futures (3)</p> <p>AGEC 500 – Production Econ (3)</p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>AGEC 513 – Agriculture Finance (3)</p> <p>AGEC 515 - Food and Agribusiness Marketing (3)</p> <p>AGEC 516 - Agricultural Law and Economics (3)</p> <p>AGEC 520 - Market Fundamentals and Futures/Options Trading (3)</p> <p>AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 605 - Price Analysis and Forecasting (3)</p> <p>AGEC 623 - International Agricultural Trade (3)</p> <p>AGEC 632 - Agribusiness Logistics (3)</p> <p>AGEC 680 - Risk Management (3)</p> <p>AGRON 335 - Environmental Quality (3)</p> <p>ASI 290 - Microcomputer Applications in Animal Sciences and Industry (3)</p> <p>ASI 303 - History and Attitudes of Animal Use (3)</p> <p>ASI 315 - Livestock and Meat Evaluation (3)</p> <p>ASI 495 – Advanced Meat Evaluation (2)</p> <p>ASI 500 - Genetics (3)</p> <p>ASI 533 - Anatomy and Physiology (4)</p> <p>ASI 595 - Contemporary Issues in Animal Science and Agriculture (3)</p> <p>ASI 645 - Poultry Management (3)</p> <p>ASI 660 - International Study Experience in Animal Science (0-6)</p> <p>ATM 160 - Engineered Systems and Technology in Agriculture (3)</p> <p>ATM 450 - Sensors and Controls for Agricultural and Biological Systems (3)</p>	<p>GRSC 638 - Baking Science II Laboratory (1)</p> <p>HORT 325 – Introduction to Organic Farming (3)</p> <p>PROFESSIONAL ELECTIVES (Minimum 12 hours)</p> <p>ACCTG 231 - Accounting for Business Operations (3)</p> <p>ACCTG 241 - Accounting for Investing and Financing (3)</p> <p>AGCOM 400 - Agricultural Business Communications (3)</p> <p>AGCOM 590 - New Media Technology (3)</p> <p>AGCOM 610 - Crisis Communication (3)</p> <p>AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p>AGEC 202 – Small Business Ops (3)</p> <p>AGEC 220 – Grain and Livestock Marketing 3</p> <p>AGEC 308 - Farm and Ranch Management (3)</p> <p>AGEC 315 – Contemporary Issues in Global Food and Agriculture (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 410 - Agricultural Policy (3)</p> <p>AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3)</p> <p>AGEC 420 - Commodity Futures (3)</p> <p>AGEC 500 – Production Econ (3)</p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>AGEC 513 – Agriculture Finance (3)</p> <p>AGEC 515 - Food and Agribusiness Marketing (3)</p> <p>AGEC 516 - Agricultural Law and Economics (3)</p> <p>AGEC 520 - Market Fundamentals and Futures/Options Trading (3)</p> <p>AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 605 - Price Analysis and Forecasting (3)</p> <p>AGEC 623 - International Agricultural Trade (3)</p> <p>AGEC 632 - Agribusiness Logistics (3)</p> <p>AGEC 680 - Risk Management (3)</p> <p>AGRON 335 - Environmental Quality (3)</p> <p>ASI 290 - Microcomputer Applications in Animal Sciences and Industry (3)</p> <p>ASI 303 - History and Attitudes of Animal Use (3)</p> <p>ASI 315 - Livestock and Meat Evaluation (3)</p> <p>ASI 495 – Advanced Meat Evaluation (2)</p> <p>ASI 500 - Genetics (3)</p> <p>ASI 533 - Anatomy and Physiology (4)</p> <p>ASI 595 - Contemporary Issues in Animal Science and Agriculture (3)</p> <p>ASI 645 - Poultry Management (3)</p> <p>ASI 660 - International Study Experience in Animal Science (0-6)</p> <p>ATM 160 - Engineered Systems and Technology in Agriculture (3)</p> <p>ATM 450 - Sensors and Controls for Agricultural</p>
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<p>BIOL 330 – Public Health Biology (3) BIOL 340 - Structure and Function of the Human Body (8) BIOL 450 - Modern Genetics (4) BIOL 530 – Pathogenic Microbiology (3) BIOL 541 - Cell Biology (3) BIOL 690 – Microbial Physiology & Metabolism (2) CIS 101 - Introduction to Computing Systems, Information Search, and Security (1) CIS 102 - Introduction to Spreadsheet Applications (1) CIS 103 - Introduction to Database Applications (1) CIS 104 - Introduction to Word Processing Applications (1) CIS 105 - Introduction to Computer Programming (1) CHM 550 - Organic Chemistry II (3) CHM 551 - Advanced Organic Laboratory (2) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ECON 120 - Principles of Microeconomics (3) ECON 510 – Intermediate Macroeconomics (3) ECON 520 - Intermediate Microeconomics (3) ENGL 300 - Expository Writing III (3) ENGL 516 - Written Communication for the Sciences (3) FINAN 450 - Principles of Finance (3) FDSCI 430 - Food Products Evaluation (3) FDSCI 530 – Undergraduate Research in Food Science (0-3) FDSCI 603 - Food Science Internship (1-6) FDSCI 630 - Food Science Problems (Variable) FDSCI 710 – Kosher & Halal Food Regulations (2) FDSCI 713 - Rapid Methods and Automation in Microbiology (2) FDSCI 730 - A Multidisciplinary Overview of Food Safety and Security (2) FDSCI 731 – Food Prot and Def: Essential Concepts (3) FDSCI 791 - Advanced Application of HACCP Principles (3) GENAG 210 – Human and Cultural Diversity in Food and Agricultural Sciences (2) GENAG 505 - Comparative Agriculture (1-4) GENAG 711 – Occupational & Ag Health (3) GENAG 721 Occupational & Ag Safety & Health (3) GNHE 310 - Human Needs (3) HMD 220 – Environmental Issues in Hospitality (3) HMD 341 – Principles of Food Production</p>	<p>and Biological Systems (3) BIOL 330 – Public Health Biology (3) BIOL 340 - Structure and Function of the Human Body (8) BIOL 450 - Modern Genetics (4) BIOL 530 – Pathogenic Microbiology (3) BIOL 541 - Cell Biology (3) BIOL 690 – Microbial Physiology & Metabolism (2) CIS 101 - Introduction to Computing Systems, Information Search, and Security (1) CIS 102 - Introduction to Spreadsheet Applications (1) CIS 103 - Introduction to Database Applications (1) CIS 104 - Introduction to Word Processing Applications (1) CIS 105 - Introduction to Computer Programming (1) CHM 550 - Organic Chemistry II (3) CHM 551 - Advanced Organic Laboratory (2) COMM 311 - Business and Professional Speaking (3) COMM 321 - Public Speaking II (3) COMM 322 - Interpersonal Communication (3) COMM 326 - Small Group Discussion Methods (3) COMM 535 - Communication and Leadership (3) ECON 120 - Principles of Microeconomics (3) ECON 510 – Intermediate Macroeconomics (3) ECON 520 - Intermediate Microeconomics (3) ENGL 300 - Expository Writing III (3) ENGL 516 - Written Communication for the Sciences (3) FINAN 450 - Principles of Finance (3) FDSCI 430 - Food Products Evaluation (3) FDSCI 530 – Undergraduate Research in Food Science (0-3) FDSCI 603 - Food Science Internship (1-6) FDSCI 630 - Food Science Problems (Variable) FDSCI 710 – Kosher & Halal Food Regulations (2) FDSCI 713 - Rapid Methods and Automation in Microbiology (2) FDSCI 730 - A Multidisciplinary Overview of Food Safety and Security (2) FDSCI 731 – Food Prot and Def: Essential Concepts (3) FDSCI 791 - Advanced Application of HACCP Principles (3) GENAG 210 – Human and Cultural Diversity in Food and Agricultural Sciences (2) GENAG 505 - Comparative Agriculture (1-4) GENAG 711 – Occupational & Ag Health (3) GENAG 721 Occupational & Ag Safety & Health (3) GNHE 310 - Human Needs (3) HMD 220 – Environmental Issues in Hospitality (3)</p>
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<p>Management (3) HMD 442 – Introduction to Wines (1) HMD 443 – Food Writing (3) HN 352 - Personal Wellness (3) HN 400 - Human Nutrition (3) HN 510 - Life Span Nutrition (3) HN 620 - Nutrient Metabolism (3) HN 701 - Sensory Analysis (3) HORT 780 – Health-Promoting Phytochemicals:Fruits and Vegetables (2) GRSC 561 - Qualities of Food and Feed Ingredients (3) GRSC 651 - Food and Feed Product Protection (4) LEAD 212 – Intro to Leadership Concepts (3) MANGT 300 - Introduction to Total Quality Management (1) MANGT 366 - Information Technology for Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3) MANGT 421 - Introduction to Operations Management (3) MANGT 530 - Industrial and Labor Relations (3) MANGT 531 - Human Resources Management (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in Free Society (3) MC 112 – Web Communication in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing (3) MKTG 542 - Professional Selling and Sales Management (3) Modern Language - Any foreign language PHYS 114 - General Physics II (4) SOCWK 612 – Fund Comm for Ag & Food Sci (3) UNRESTRICTED ELECTIVES (7-10 credit hours) Total hours required for graduation (126 credit hours)</p>	<p>HMD 341 – Principles of Food Production Management (3) HMD 442 – Introduction to Wines (1) HMD 443 – Food Writing (3) HN 352 - Personal Wellness (3) HN 400 - Human Nutrition (3) HN 510 - Life Span Nutrition (3) HN 620 - Nutrient Metabolism (3) HN 701 - Sensory Analysis (3) HORT 780 – Health-Promoting Phytochemicals:Fruits and Vegetables (2) GRSC 561 - Qualities of Food and Feed Ingredients (3) GRSC 651 - Food and Feed Product Protection (4) LEAD 212 – Intro to Leadership Concepts (3) MANGT 300 - Introduction to Total Quality Management (1) MANGT 366 - Information Technology for Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3) MANGT 421 - Introduction to Operations Management (3) MANGT 530 - Industrial and Labor Relations (3) MANGT 531 - Human Resources Management (3) MC 110 - Mass Communication in Society (3) MC 111 – Journalism in Free Society (3) MC 112 – Web Communication in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing (3) MKTG 542 - Professional Selling and Sales Management (3) Modern Language - Any foreign language PHYS 114 - General Physics II (4) SOCWK 612 – Fund Comm for Ag & Food Sci (3) UNRESTRICTED ELECTIVES (7-10 credit hours) Total hours required for graduation (126 credit hours)</p>
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RATIONALE: In the communications elective block in both of the FDSCI options, the English department contacted Animal Sciences & Industry and recommended that due to revisions made in ENGL 300 they felt that ENGL 417 and ENGL 510 better fit the writing objectives for our students than ENGL 300. The Food Science faculty and the Animal Sciences & Industry Department agree with this assessment.

IMPACT: We do not anticipate an increased impact on the English Department.

EFFECTIVE DATE: Fall 2014

Undergraduate Certificate in Meat Science

FROM:

TO:

<p>REQUIRED COURSES ASI 350 – Meat Science (3) FDSCI 690 – Principles of HACCP (2)</p> <p>Select from the following (8-15 credit hours) ASI 315 – Livestock and Meat Evaluation (3) ASI 361 – Meat Animal Processing (2) ASI 370 – Principles of Meat Evaluation (2) ASI 495 – Advanced Meat Evaluation (2) ASI 610 – Processed Meat Operations (2) ASI 661 – Animal Sciences & Industry Problems (Vr.) ASI 671 – Meat Selection and Utilization (2) ASI 776 – Meat Industry Technology (3) FDSCI 307 – Applied Microbiology for Meat and Poultry Processors (3)</p> <p>Select from the following (0 to 7 credit hours) ASI 303 – History and Attitudes of Animal Use (3) ASI 310 – Poultry and Product Evaluation (2) ASI 599 – Animal Science Internship (1-6) ASI 640 – Poultry Products Technology (3) ASI 661 – Animal Sciences & Industry Problems (Vr.) FDSCI 302 – Intro to Food Science (3) FDSCI 305 – Fundamentals of Food Processing (3) FDSCI 607 – Food Microbiology (4) FDSCI 695 – Quality Assurance of Food Products (4) Select one of the following (3 credit hours) ASI 318 – Fundamental of Nutrition (3) OR HN 132 – Basic Nutrition (3)</p> <p>Total hours required for completion of the certificate (20 credit hours)</p>	<p>REQUIRED COURSES ASI 350 – Meat Science (3) FDSCI 690 – Principles of HACCP (2)</p> <p>Select from the following (6-15 credit hours) ASI 315 – Livestock and Meat Evaluation (3) ASI 361 – Meat Animal Processing (2) ASI 370 – Principles of Meat Evaluation (2) ASI 495 – Advanced Meat Evaluation (2) ASI 610 – Processed Meat Operations (2) <u>ASI 658 – Animal Growth and Development (3)</u> <u>ASI 777 – Meat Technology (3)</u></p> <p>Select from the following (0 to 9 credit hours) ASI 310 – Poultry and Product Evaluation (2) ASI 599 – Animal Science Internship (1-6) ASI 640 – Poultry Products Technology (3) ASI 661 – Animal Sciences & Industry Problems (Vr.) FDSCI 302 – Intro to Food Science (3) FDSCI 305 – Fundamentals of Food Processing (3) <u>ASI 595 – Contemporary Issues (3)</u> <u>FDSCI 600 – Food Microbiology (2)</u> <u>FDSCI 601 – Food Microbiology (2)</u> <u>FDSCI 603 – Food Science and Industry Internship (Var.)</u> <u>FDSCI 630 – Food Science and Industry Problems (Var.)</u> FDSCI 695 – Quality Assurance of Food Products (4) ASI 318 – Fundamental of Nutrition (3) OR HN 132 – Basic Nutrition (3)</p> <p>Total hours required for completion of the certificate (20 credit hours)</p>
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RATIONALE: These changes are a curriculum update to better reflect the intention of the Meat Science Certificate.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2014

Undergraduate Curriculum Deletions

Horticulture, Forestry, and Recreation Resources

DROP: Bachelor of Science in Agriculture, Park Management and Conservation Interpretation Option

RATIONALE: PMC faculty propose these changes to better meet new accreditation standards and to provide both breadth and depth for students to specialize within the one overarching curriculum. This is accomplished by consolidating the four options into only one. This is presented as a change for one option and concurrent drop of the other 3.

IMPACT: No new impacts outside the department because courses in the newly formatted curriculum had already been approved and included, for example, as “Recommended Electives” in the previous four specialization curricula.

EFFECTIVE DATE: Spring 2015

DROP: Bachelor of Science in Agriculture, Park Management and Conservation Law Enforcement Option

RATIONALE: PMC faculty propose these changes to better meet new accreditation standards and to provide both breadth and depth for students to specialize within the one overarching curriculum. This is accomplished by consolidating the four options into only one. This is presented as a change for one option and concurrent drop of the other 3.

IMPACT: No new impacts outside the department because courses in the newly formatted curriculum had already been approved and included, for example, as “Recommended Electives” in the previous four specialization curricula.

EFFECTIVE DATE: Spring 2015

DROP: Bachelor of Science in Agriculture, Park Management and Conservation Recreation Business Option

RATIONALE: PMC faculty propose these changes to better meet new accreditation standards and to provide both breadth and depth for students to specialize within the one overarching curriculum. This is accomplished by consolidating the four options into only one. This is presented as a change for one option and concurrent drop of the other 3.

IMPACT: No new impacts outside the department because courses in the newly formatted curriculum had already been approved and included, for example, as “Recommended Electives” in the previous four specialization curricula.

EFFECTIVE DATE: Spring 2015

Undergraduate Curriculum Changes

Horticulture, Forestry, and Recreation Resources

FROM: B.S. in Agriculture: Park Management and Conservation
Conservation

TO: B.S. in Agriculture: Park Management and

<u>Park Manager Option</u>	<u>GENERAL REQUIREMENTS</u> 40 hours	<u>GENERAL REQUIREMENTS</u> 48 hours
Communications: (9 hours)	Communications: (12 hours)	Communications: (12 hours)
ENGL 100 (3) Expository Writing I	COMM 106 (3) Public Speaking I	COMM 106 (3) Public Speaking I
ENGL 200 (3) Expository Writing II	<u>COMM 311</u> (3) <u>Business & Prof. Speaking</u>	<u>COMM 311</u> (3) <u>Business & Prof. Speaking</u>
COMM 106 (3) Public Speaking I	ENGL 100 (3) Expository Writing I	ENGL 100 (3) Expository Writing I
	ENGL 200 (3) Expository Writing II	ENGL 200 (3) Expository Writing II
<u>General Agriculture:</u>	Natural Sciences: (15 hours)	Natural Sciences: (15 hours)
GENAG 101 (1) Ag. Orientation	BIOL 198* (4) Prin. of Biology	BIOL 198* (4) Prin. of Biology
	CHM 110* (3) General Chemistry	CHM 110* (3) General Chemistry
	CHM 111* (1) General Chemistry Lab	CHM 111* (1) General Chemistry Lab
	GEOL 100* (3) Earth in Action	GEOL 100* (3) Earth in Action
	<u>AGRON 305*</u> (4) <u>Soils</u>	<u>AGRON 305*</u> (4) <u>Soils</u>
	Social Sciences: (15 hours)	Social Sciences: (15 hours)
	<u>ANTH 200*</u> (3) <u>Intro. to Cultural Anthropology</u>	<u>ANTH 200*</u> (3) <u>Intro. to Cultural Anthropology</u>
	<u>ECON 110*</u> (3) <u>Principles of Macroeconomics</u>	<u>ECON 110*</u> (3) <u>Principles of Macroeconomics</u>
	or	or
	ECON 120* (3) Principles of Microeconomics	ECON 120* (3) Principles of Microeconomics
	PSYCH 110* (3) General Psychology	PSYCH 110* (3) General Psychology
	SOCIO 211* (3) Intro. to Sociology	SOCIO 211* (3) Intro. to Sociology
	<u>MANGT 531*</u> (3) <u>Human Resources Management</u>	<u>MANGT 531*</u> (3) <u>Human Resources Management</u>
	Mathematics & Statistics: (6 hours)	Mathematics & Statistics: (6 hours)
	MATH 100* (3) College Algebra	MATH 100* (3) College Algebra
	STAT 325* (3) Introduction to Statistics	STAT 325* (3) Introduction to Statistics
	<u>PROFESSIONAL CORE</u> 38 hours	<u>PROFESSIONAL CORE</u> 38 hours
	<u>PMC 110</u> (1) <u>Environ. Ed. and Leadership</u>	<u>PMC 110</u> (1) <u>Environ. Ed. and Leadership</u>
	<u>PMC 210</u> (3) <u>Intro. to Outdoor Recreation</u>	<u>PMC 210</u> (3) <u>Intro. to Outdoor Recreation</u>
	<u>PMC 350</u> (1) <u>Parks & Recreation Practicum</u>	<u>PMC 350</u> (1) <u>Parks & Recreation Practicum</u>
	<u>PMC 375</u> (3) <u>Intro to Natural Resource Mgmt.</u>	<u>PMC 375</u> (3) <u>Intro to Natural Resource Mgmt.</u>
	<u>PMC 330</u> (3) <u>Dendrology</u>	<u>PMC 330</u> (3) <u>Dendrology</u>
	<u>PMC 475</u> (3) <u>Natural Hist. for Park Managers</u>	<u>PMC 475</u> (3) <u>Natural Hist. for Park Managers</u>
	<u>PMC 489*</u> (3) <u>Program & Event Planning</u>	<u>PMC 489*</u> (3) <u>Program & Event Planning</u>
	<u>PMC 492</u> (6) <u>Internship in Parks & Rec.</u>	<u>PMC 492</u> (6) <u>Internship in Parks & Rec.</u>
	RRES 575* (3) <u>Water Mgmt. for Natural Resource Managers</u>	RRES 575* (3) <u>Water Mgmt. for Natural Resource Managers</u>
	<u>PMC 580</u> (4) <u>Park Ops & Facilities Mgmt.</u>	<u>PMC 580</u> (4) <u>Park Ops & Facilities Mgmt.</u>
	<u>PMC 635*</u> (3) <u>Methods of Enviro. Interpretation</u>	<u>PMC 635*</u> (3) <u>Methods of Enviro. Interpretation</u>
<u>RECREATION RESOURCES CORE</u> 57 hours		
AGRON 305* (4) Soils		
BIOL 433 (3) Wildlife Conservation		
CIS 101* (1) Intro to Information Tech.		
CIS 102* (1) Intro to Spreadsheet Apps.		
CIS 104* (1) Intro to Word Processing Apps.		
FOR 330 (2) Dendrology I		
FOR 340* (2) Dendrology II		
FOR 375 (3) Intro to Natural Resource Mgmt		
FOR 510 (3) Forestry for Park Managers		

HMD	230*	(3)	Issues in Tourism	PMC	710	(3)	<u>Rural Tourism/Sust. Developmnt.</u>
LAR	322*	(3)	Environmental Issues & Ethics	Choose 2 hours from the following:			
MC	180	(3)	Fund. of Public Relations	PMC	113	(1)	<u>Shooting Sports Certification</u>
RRES	210*	(1)	Life and Leisure	PMC	114	(1)	<u>KS Park and Wildlife Regulations</u>
RRES	310*	(3)	Outdoor Recreation Leadership	PMC	115	(1)	<u>Adventure Challenge Certif.</u>
RRES	350	(2)	Parks & Recreation Practicum	PMC	120	(1)	<u>Outdoor Recreation Certification</u>
RRES	489*	(3)	Program and Event Planning	<u>SPECIALIZED COURSES</u> 27 hours			
RRES	492	(6)	Internship in Parks & Rec.	Choose 27 or more hours from the following:			
RRES	575*	(3)	Mgt. of Water Res. For Leisure	<u>Business: (minor in Business)</u>			
RRES	580	(4)	Park Ops. & Facilities Mgmt.	ACCTG	231*	(3)	<u>Accounting for Business Ops.</u>
RRES	635*	(3)	Environmental Interpretation	ACCTG	241*	(3)	<u>Accounting for Invest. & Finan.</u>
RRES	690	(4)	Park & Recreation Admin.	FINAN	450*	(3)	<u>Principles of Finance</u>
<u>PARK MNGR. SPECIALIZATION</u> 13-15 hours				MANGT	420*	(3)	<u>Management Concepts</u>
Choose five courses from the following (ENTOM 312 & 313 count as one course)				MKTG	400*	(3)	<u>Introduction to Marketing</u>
				STAT	350*	(3)	<u>Business & Econ. Statistics I</u>
AGEC	525*	(3)	Natural Resource Economics	<u>Communications:</u>			
ASI	303*	(3)	Hist. & Attitudes of Animal Use	AGCOM	712	(3)	<u>Environmental Communications</u>
ENTOM	312*	(2)	General Entomology	COMM	320*	(3)	<u>Theories of Human Comm.</u>
				COMM	526*	(3)	<u>Persuasion</u>
				ENGL	465*	(3)	<u>Intro. to Creative Nonfiction</u>
ENTOM	313	(1)	General Entomology Lab	MC	110*	(3)	<u>Mass Comm. In Society</u>
FOR	285	(3)	Forest Resource Lab	PMC	640	(3)	<u>Advanced Environ. Interpretation</u>
GEOG	302	(3)	Cartography/Thematic Mapping	<u>Any one Modern Language Course</u>			
GEOG	300*	(3)	Geography of Tourism	<u>Any one Theatre Course</u>			
GEOG	340*	(3)	Geography of Nat. Resources	<u>Law Enforcement Ranger:</u>			
GEOG	508*	(3)	Geog. Information Systems	RRES	200	(9)	<u>Topics: Ranger Training</u>
GEOG	705	(3)	Remote Sensing of the Enviro.	<u>Academy (NPS) NPS = National Park Service</u>			
GEOL	515*	(3)	Geography of National Parks (On Demand)	<u>Certification</u>			
HORT	508*	(2)	Landscape Maintenance	<u>or</u>			
HORT	515*	(2)	Basic Turfgrass Culture	RRES	200	(12)	<u>Topics: Ranger Training</u>
HORT	585*	(3)	Arboriculture	<u>Academy (NPS+POST) POST = Police Officers</u>			
LAR	756	(3)	Design of Parks & Rec. Areas	<u>Standards Training</u>			
PLPTH	500*	(3)	Principles of Plant Pathology	<u>Resource Management:</u>			
PSYCH	535*	(3)	Social Psychology	PMC	510	(3)	<u>Forestry for Park Managers</u>
SOCIO	570*	(2)	Race and Ethnic Relations	AGEC	525*	(3)	<u>Natural Resource & Env. Econ.</u>
Any Modern Language Course				BIOL	222	(1)	<u>Field Ornithology</u>
FREE ELECTIVES				BIOL	303	(3)	<u>Ecol. of Environmental Problems</u>
				BIOL	465	(3)	<u>Plant Ecology</u>
				ENTOM	312*	(2)	<u>General Entomology</u>
				<u>AND</u>			
				ENTOM	313	(1)	<u>General Entomology Lab</u>
				GEOG	221*	(4)	<u>Introductory Physical Geography</u>
				GEOG	340*	(3)	<u>Geography of Natural Resources</u>
				GEOG	508*	(4)	<u>Geographic Information Systems</u>
				GEOG	605	(3)	<u>Remote Sensing of the Environ.</u>
				HORT	508*	(2)	<u>Landscape Maintenance</u>
Total Hours Required				130			

	HORT 515* (2) Basic Turfgrass Culture	
	HORT 585* (3) Arboriculture	
	PLPTH 500* (3) Principles of Plant Pathology	
	<u>Social Sciences:</u>	
	<u>PLAN 315* (3) Introduction to City Planning</u>	
	<u>GEOG 300* (3) Geography of Tourism</u>	
	<u>HIST 511* (3) Environmental History</u>	
	<u>MANGT 390* (3) Business Law I</u>	
	<u>POLSC 507* (3) Intro. to Public Administration</u>	
	<u>PSYCH 535* (3) Social Psychology</u>	
	<u>SOCIO 361* (3) Criminal Justice Systems</u>	
	<u>SOCIO 362* (3) Police and Society</u>	
	<u>SOCIO 460* (3) Youth and Crime</u>	
	<u>SOCIO 570* (3) Race and Ethnic Relations</u>	
	<u>SOCIO 561* (3) Criminology</u>	
	HMD 230 (3) Issues in Tourism	
	FREE ELECTIVES	<u>7 hours</u>
	Total Hours Required	<u>120</u>
*Approved K-State 8/General Education Courses		*Approved K-State 8/General Education Courses

RATIONALE: PMC faculty propose these changes to better meet new accreditation standards and to provide both breadth and depth for students to specialize within the one overarching curriculum. This is accomplished by consolidating the four options into only one. This is presented as a change for one option and concurrent drop of the other 3 options.

IMPACT: No new impacts outside the department because courses in the newly formatted curriculum had already been approved and included in the previous options, for example, as “Recommended Electives” in the previous four specialization curricula.

EFFECTIVE DATE: Spring 2015

B.S. in Wildlife and Outdoor Enterprise Management

FROM:

TO:

GENERAL REQUIREMENTS	67 hours	GENERAL REQUIREMENTS	67 hours
Communications:	(9 hours)	Communications:	(9 hours)
ENGL 100 (3) Expository Writing I		ENGL 100 (3) Expository Writing I	
ENGL 200 (3) Expository Writing II		ENGL 200 (3) Expository Writing II	
COMM 106 (3) Public Speaking I		COMM 106 (3) Public Speaking I	
Natural Sciences:	(16 hours)	Natural Sciences:	(16 hours)
BIOL 198* (4) Prin. of Biology		BIOL 198* (4) Prin. of Biology	
BIOL 201* (5) Organismic Biology		BIOL 201* (5) Organismic Biology	
CHM 110* (3) General Chemistry		CHM 110* (3) General Chemistry	
CHM 111* (1) General Chemistry Lab		CHM 111* (1) General Chemistry Lab	
GEOL 100* (3) Earth in Action		GEOL 100* (3) Earth in Action	
		<u>or</u>	
		<u>GEOG 300* (3) Geography of Tourism</u>	
Social Systems:	(9 hours)	Social Systems:	(9 hours)
ECON 110* (3) Principles of Macroeconomics		ECON 110* (3) Principles of Macroeconomics	
ECON 120* (3) Principles of Microeconomics		ECON 120* (3) Principles of Microeconomics	
SOCIO 211* (3) Intro. to Sociology		SOCIO 211* (3) Intro. to Sociology	
		<u>or</u>	
		<u>PSYCH 110* (3) General Psychology</u>	
Mathematics & Statistics:	(6 hours)	Mathematics & Statistics:	(6 hours)
MATH 100* (3) College Algebra		MATH 100* (3) College Algebra	
STAT 350* (3) Bus. and Econ. Statistics		STAT 350* (3) Bus. and Econ. Statistics	
Business:	(15 hours)	Business:	(15 hours)
ACCTG 231* (3) Accounting for Bus. Ops.		ACCTG 231* (3) Accounting for Bus. Ops.	
ACCTG 241* (3) Accounting for Inv./Finance		ACCTG 241* (3) Accounting for Inv./Finance	
FINAN 450* (3) Principles of Finance		FINAN 450* (3) Principles of Finance	
MANGT 420* (3) Management Concepts		MANGT 420* (3) Management Concepts	
MKTG 400* (3) Intro. to Marketing		MKTG 400* (3) Intro. to Marketing	
Hospitality:	(12 hours)	Hospitality:	(12 hours)
HMD 220* (3) Envir. Issues in Hospitality		HMD 220* (3) Envir. Issues in Hospitality	
HMD 341* (3) Princ. of Food Prod. Mgmt.		HMD 341* (3) Princ. of Food Prod. Mgmt.	
HMD 361 (3) Princ. of Lodging Operations		HMD 361 (3) Princ. of Lodging Operations	
HMD 621* (3) Hospitality Law		HMD 621* (3) Hospitality Law	
WILDLIFE AND OUTDOOR ENTERPRISE MANAGEMENT CORE	56 hours	WILDLIFE AND OUTDOOR ENTERPRISE MANAGEMENT CORE	<u>58</u>hours
Natural Resources Management: (38-44 hrs.)		Natural Resources Management: (<u>38</u> hrs.)	
AGRON 305* (4) Soils		AGRON 305* (4) Soils	
AGRON 501* (3) Range Management		AGRON 501* (3) Range Management	
BIOL 433 (3) Wildlife Conservation		BIOL 433 (3) Wildlife Conservation	
ASI 633 (3) Gamebird Production & Mgmt.		ASI 633 (3) Gamebird Production & Mgmt.	

FOR 330 (3) Dendrology	FOR 330 (3) Dendrology
FOR 375* (3) Intro. to Nat. Resources Mgmt.	FOR 375* (3) Intro. to Nat. Resources Mgmt.
RRES 250 (1) Intro. to Wildlife & Outdoor Enterprise Mgmt.	RRES 250 (1) Intro. to Wildlife & Outdoor Enterprise Mgmt.
RRES 570* (10) Internship for WOEM	RRES 570* (10) Internship for WOEM
RRES 575* (3) Water Mgmt. for Nat. Res. Mgrs.	RRES 575* (3) Water Mgmt. for Nat. Res. Mgrs.
RRES 590 (0-6) WOEM Problems	RRES 595* (1) WOEM Senior Seminar
RRES 595* (1) WOEM Senior Seminar	RRES 620* (4) Human-Wildlife Conflicts
RRES 620* (4) Human-Wildlife Conflicts	
Outdoors Skills, Guiding and Operations Courses:	Outdoors Skills, Guiding and Operations Courses: <u>(20 hours)</u>
Hunting:	Hunting:
RRES 204 (1) Hunter Education Instructor	RRES 204 (1) Hunter Education Instructor
RRES 207 (2) Wildlife Habitat/Food Plot Installation & Maintenance	RRES 207 (2) Wildlife Habitat/Food Plot Installation & Maintenance
RRES 555* (3) Princ. & Pract. of Big Game Hunting	RRES 555* (3) Princ. & Pract. of Big Game Hunting
RRES 560* (3) Princ. & Pract. of Upland Gamebird, Turkey & Waterfowl Hunting/Guiding	RRES 560* (3) Princ. & Pract. of Upland Gamebird & Turkey Hunting/Guiding
	<u>RRES 561* (3) Princ. & Pract. Waterfowl Hunting/Guiding & Wetlands Mgmt.</u>
Fishing:	Fishing:
RRES 565* (3) Princ. & Pract. of Freshwater Fishing	RRES 565* (3) Princ. & Pract. of Freshwater Fishing
Shooting Sports:	Shooting Sports:
RRES 201 (1) Firearms, Cartidges & Ballistics	RRES 201 (1) Firearms, Cartidges & Ballistics
RRES 202 (1) Rifle & Handgun Range Dev. & Ops.	RRES 202 (1) Rifle & Handgun Range Dev. & Ops.
RRES 203 (1) Bowhunting Equip. & Skills	RRES 203 (1) Bowhunting Equip. & Skills
RRES 205 (1) Sporting Clays Range Dev. & Ops.	RRES 205 (1) Sporting Clays Range Dev. & Ops.
RRES 206 (1) Trap/Skeet Range Dev. & Ops.	RRES 206 (1) Trap/Skeet Range Dev. & Ops.
FREE ELECTIVES 7 hours	FREE ELECTIVES <u>5</u> hours
Total Hours Required 130	Total Hours Required 130
*Approved K-State 8/General Education Courses	*Approved K-State 8/General Education Courses

RATIONALE: This proposed change simply updates the curriculum for programmatic intent to include new courses.

IMPACT: No major impacts expected for other departments. Students are already taking GEOG 300 and PSCYH 110 and substituting these courses in the curriculum.

EFFECTIVE DATE: Spring 2015

College of Technology & Aviation, K-State Salina (3-21-14)

NON-EXPEDITED COURSE PROPOSALS

Courses Numbered 000-599

Department of Aviation

Primary Contact Person: Barney King, Aviation Department

Phone: 785-826-2683

Email: Kingb@ksu.edu

ADD: **AVT 300. UAS Powerplant Fundamentals.** (3) Fall. A study of the principles of operation, design features, and operating characteristics of various powerplants used in unmanned aircraft vehicles. Includes inspection procedures and operational theory of current electric, piston, hybrid, and turbine propulsion systems. Two hours lec. and three hours lab a week.

K-State 8:

- Ethical Reasoning and Responsibility
- Natural and Physical Science

RATIONALE: This upper-division course is needed to provide additional experience with powerplant fundamentals for a future degree option related to unmanned aircraft systems. It is a derivative of the course AVM 321 Powerplant Fundamentals and has been fine tuned for a future proposal degree option.

IMPACT: Addition of this class does not impact any other department.

EFFECTIVE DATE: Fall 2014

ADD: **AVT 318. Composites I Laboratory.** (1) Fall. An optional laboratory course introducing the use of equipment and materials utilized in the advanced composites industry. Two hours lab a week. Coreq.: AVT 317.

K-State 8:

- None

RATIONALE: This course adds an optional laboratory class to AVT 317 Composites I. This class will allow practical hands on activities to enhance familiarization and learning of the materials, equipment and processes discussed during lecture.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2014

Department of Engineering Technology

Primary Contact Person: Saeed Khan, Engineering Technology

Phone: 785-826-2677

E-mail: saeed@ksu.edu

ADD: **ETB 480. UAS Senior Design I.** (1) Fall. Application of UAS principles and design methodology to solving a significant design problem in a team context. Includes determining customer requirements, exploring and choosing design alternatives, scheduling, and project management. Significant milestones are the project's conceptual, preliminary, and critical design reviews, which require written and oral presentations. One hour lec. a week.

K-State 8:

- None

RATIONALE: Provides the first segment of a capstone experience for a future degree option related to an Unmanned Aircraft Systems option in Engineering Technology.

IMPACT: The Engineering Technology and Aviation departments have collaborated on the development of this course to offer in a future proposal adding an option in Engineering Technology - Unmanned Aircraft Systems.

EFFECTIVE DATE: Fall 2014

ADD: **ETB 481. UAS Senior Design II.** (2) Spring. A continuation of ETB 480. Includes the implementation, testing, and delivery of the project initiated in ETB 480 UAS Senior Design I. Significant milestones are the project prototype, design report, and final presentation. Four hours lab a week. Pr.: ETB 480.

K-State 8:

- None

RATIONALE: Provides the second segment of a capstone experience for a future degree option related to an Unmanned Aircraft Systems option in Engineering Technology.

IMPACT: The Engineering Technology and Aviation departments have collaborated on the development of this course to offer in a future proposal adding an option in Engineering Technology - Unmanned Aircraft Systems.

EFFECTIVE DATE: Fall 2014

College of Education (3-25-14)

Undergraduate New Courses School of Leadership Studies

LEAD 510. Foundations of Community-Engaged Leadership. (3) I. This course integrates leadership theory and practice exploring principles, purposes, and processes of community engagement and democratic practice. Utilizing service-learning methods, students will partner with community to consider and examine foundational forms of civic and public life. Community paradigms will be explored and deconstructed in relation to course themes.

IMPACT: There is no negative impact to any college, department or unit. All relevant departments have been contacted and report no objections.

RATIONALE: This is the first of three core courses in the Community-Engaged Leadership certificate program. The course provides the foundational knowledge of community engagement.

EFFECTIVE DATE: Fall 2014

LEAD 520. Approaches to Community-Engaged Leadership. (3) II. Through theory and practice, students consider the ethical dimensions of leadership in relation to community systems, organizations, and institutions. Students will deconstruct concepts of community-engaged leadership including race, class, gender, justice, and power. Through service-learning, students will work with partners to understand community systems, organizations, and institutions. Pre-Requisite: LEAD 510.

IMPACT: There is no negative impact to any college, department or unit. All relevant departments have been contacted and report no objections.

RATIONALE: This is the second of three core courses in the Community-Engaged Leadership certificate program. This course explores the approaches to community engagement from a systems perspective.

EFFECTIVE DATE: Fall 2014

LEAD 560. Experiences in Community-Engaged Leadership. (6) II. In this capstone experience students design, plan, execute, and evaluate a community-engaged research project. The project will be consistent with the principles of community engagement and the purposes and process of democratic practice. Students will exercise leadership with community partners to build capacity for systemic change. Pre-Requisite: LEAD 510 and LEAD 520.

IMPACT: There is no negative impact to any college, department or unit. All relevant departments have been contacted and report no objections.

RATIONALE: This is the third and final core course in the Community-Engaged Leadership certificate program. This course applies methods of community engagement primarily through community-based research.

EFFECTIVE DATE: Fall 2014

Non-Expedited
Undergraduate Curriculum and Course Changes
Curriculum and Instruction

FROM:

TO:

SOCIAL STUDIES (EDSST)	SOCIAL STUDIES (EDSST)
I. CORE COURSES (Required grade of C or better in this section)	I. CORE COURSES (Required grade of C or better in this section)
HIST 111 World History I 3	HIST 111 World History I 3
HIST 112 World History II 3	HIST 112 World History II 3
HIST 251 History of U.S. to 1877 3	HIST 251 History of U.S. to 1877 3
HIST 252 History of U.S. Since 1877 3	HIST 252 History of U.S. Since 1877 3
HIST 558 History of Kansas 3	HIST 558 History of Kansas 3
POLSC 110 Introduction to Political Science 3	POLSC 115 U.S Politics 3
POLSC 115 U.S. Politics 3	POLSC 301 Introduction to Political Thought 3
POLSC 135 Comparative Politics 3	POLSC 333 World Politics OR 3
GEOG 100 World Regional Geography 3	POLSC 135 Comparative Politics 3
GEOG 200 Human Geography 3	GEOG 100 World Regional Geography 3
GEOG 221 Introduction to Phys Geography 4	GEOG 200 Human Geography 3
ECON 110 Principles of Macroeconomics 3	GEOG 221 Introduction to Phys Geography 4
ECON 120 Principles of Microeconomics 3	ECON 110 Principles of Macroeconomics 3
SOCIO 211 Introduction to Sociology 3	ECON 120 Principles of Microeconomics 3
ANTH 204 Cultural Anthropology 3	SOCIO 211 Introduction to Sociology 3
II. HISTORY COURSES (Must be 500-level courses)	ANTH 204 Cultural Anthropology 3
A. U.S. History: HIST 3	II. HISTORY COURSES (Must be 500-level courses)
B. Non-U.S. History: HIST 3	A. U.S. History: HIST 3
III. UPPER-LEVEL SOCIAL STUDIES (Must include 9 credits; one listed course from three of the following departments:)	B. Non-U.S. History: HIST 3
A. Political Sci: 301, 321, 333, 525, 543, 603, 605, 614, 615, 667	III. UPPER-LEVEL SOCIAL STUDIES (Must include 9 credits; one listed course from three of the following departments:)
POLSCI	A. Political Sci: 301, 321, 333, 525, 543, 603, 605, 614, 615, 667
B. Geography: 302, 310, 340, 460, 500, 508, 535, 620, 640, 690	POLSCI
GEOG	B. Geography: 302, 310, 340, 460, 500, 508, 535, 620, 640, 690
C. Economics: 510, 520, 523, 530, 536, 555, 681	GEOG
ECON	C. Economics: 510, 520, 523, 530, 536, 555, 681
D. Sociology: 360, 440, 450, 507, 511, 533, 535, 541, 545, 570, 618	ECON
SOCIO	D. Sociology: 360, 440, 450, 507, 511, 533, 535, 541, 545, 570, 618
E. Anthropology: 260, 360, 503, 505, 507, 533, 618, or 630	SOCIO
ANTH	E. Anthropology: 260, 360, 503, 505, 507, 533, 618, or 630
Additional Teacher Education Course: 3	ANTH
EDSEC 528 Social Studies Colloquium (Must be taken concurrently with Block II)	Additional Teacher Education Course: 3
Subject Assessment Test Required: #5081	EDSEC 528 Social Studies Colloquium (Must be taken concurrently with Block II)
OR #0081	

IMPACT: Mutual discussion with the Department of Political Science has been held and this change has been agreed upon.

RATIONALE: In discussing course offering changes with the Department of Political Science, it would be appropriate and in line with candidate preparation to make the following changes to our program.

EFFECTIVE DATE: Fall 2014

Non-Expedited
Undergraduate New Certificate
School of Leadership Studies

FROM:

TO:

	<u>REQUIREMENTS FOR COMMUNITY-ENGAGED LEADERSHIP CERTIFICATE</u>
	LEAD 510: Foundations of Community-Engaged Leadership.....(3)
	LEAD 520: Approaches to Community-Engaged Leadership.....(3)
	LEAD 560: Experiences in Community-Engaged Leadership(6)
	TOTAL = (12)

IMPACT: There is no negative impact to any college, department or unit. All relevant departments have been contacted and report no objections.

RATIONALE: The School of Leadership Studies at Kansas State University has partnered with Points of Light to offer students a 12-credit hour undergraduate leadership certificate program. Points of Light is the world’s leading volunteer organization with more than 20 years of history and a bipartisan presidential legacy, the mission of which is “to inspire, equip and mobilize people to take action that changes the world.” The academic certificate program we propose cultivates a model of leadership consistent with principles of partnership: reciprocity, mutual benefit, and exchange of knowledge and resources. With Points of Light’s purpose of citizen empowerment and support of an “open public sector that sustains and enlivens democratic processes,” it brings to the partnership with the School of Leadership Studies, and to the students who participate in the certificate, a well-developed national network of community partners essential to this effort.

This is a Stand Alone certificate. Each course in this certificate program will be delivered using an interactive online and real-time learning platform. Service-learning teaching methods are intentionally integrated within each course. The academic components of the program are delivered by the School of Leadership Studies at Kansas State University; Points of Light will leverage its national service and volunteer network to place students with community partners

across the country. The community engagement component of this program places students and community members at the center of developing partnerships. This program will not only assess student-learning outcomes in relation to the purposes and process of democratic engagement, but will begin to develop assessment frameworks that measure community impact and community learning.

There are currently no similar undergraduate certificate programs that are offered in a distance format. The few programs with similar goals and objectives are place-based (for residential students) and offered to a select group of students mainly at private institutions (such as Emory University's minor in Community Building and Social Change). Offering this curriculum in this way provides access, removing or lowering geographic and/or financial barriers to students throughout the United States.

The Association for Public and Land Grant Universities and the Association for the American State Colleges and Universities announced a series of ambitious goals to increase retention and degree completion by 2025, as has Kansas State University. Research suggests that students who participate in courses with a service-learning or community engagement component are more likely to be retained, persist, and achieve higher learning outcomes. In addition to these student learning outcomes, community-engaged scholarship represents the potential to elicit positive community impact that is consistent with the land-grant tradition.

EFFECTIVE DATE: Fall 2014

College of Arts and Sciences (4-3-14)

NON-EXPEDITED COURSE PROPOSALS

Courses Numbered 000-599

Art

ADD: ART 404 – Minor in Art-Capstone. (0) I, II. Students prepare an essay explaining their program of study in their particular minor, reflecting on how their classes cohered and met the core objectives within Art. Taken in conjunction with the last three credit hours in the 18-hour minor in Art. Pr.: 15 credits of Art that fulfills the ART minor. Co-Req: Final 3 credits of Art for the Art Minor.

RATIONALE: This course is needed for the Art Minor as a vehicle for students to hand in their reflection paper on the minor. The students will sign up for this course in conjunction with their last 3 credits in the minor.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Biology

FROM: BIOL 340 – Structure and Function of the Human Body. (8) I, II. Anatomy and physiology of the organ systems of the human body. Laboratory includes physiology experiments, study of anatomy from human cadavers, dissection experience, x-rays, and slide work. Note: Five hours lecture and two three-hour lab sessions a week. Pr.: ~~Cumulative GPA of 2.75 or better; BIOL 198 taken at K-State (with a B grade or better) or transferred introductory biology credit plus at least one of the following introductory natural sciences courses, taken at K-State, with a B grade or better: CHM 110 (with CHM 111), CHM 210, PHYS 113, or any K-State biology course that has BIOL 198 as a prerequisite.~~

TO: BIOL 340 – Structure and Function of the Human Body. (8) I, II. Anatomy and physiology of the organ systems of the human body. Laboratory includes physiology experiments, study of anatomy from human cadavers, dissection experience, x-rays, and slide work. Note: Five hours lecture and two three-hour lab sessions a week. Pr.: Cumulative GPA of 3.0; CHM 110/CHM111, CHM 210, or CHM 230 (or transfer equivalent); BIOL 198 taken at K-State (with a B or better) or transferred biology class plus at least one of the following introductory courses taken at K-State, with a B grade or better: CHM 110/111, CHM 210, or 230; PHYS 113, PHYS 213, or any K-State biology course that has BIOL 198 as a prerequisite. Sophomore standing.

RATIONALE: These changes in requirements will give the students a better understanding of the minimum background information needed and the level of understanding required to do well in this class.

IMPACT: Human Ecology

EFFECTIVE DATE: Spring 2015

Chemistry

ADD: CHM 316 – Environmental Science: A Chemistry Perspective Laboratory. (1) I. A laboratory course to supplement the material of CHM 315. Three hours lab per week. CoR: CHM 315. K-STATE 8: Natural and Physical Sciences.

K-State 8 RATIONALE: The students will make observations and hand on quantitative measurements of chemical and physical phenomena relevant to environmental science.

RATIONALE: A laboratory class supplementing the material covered in class in CHM 315 – Environmental Science: a Chemistry Perspective would provide students with hands on experience in the chemical measurements discussed in the course. It will enhance learning through active experimentation, allowing for direct observation of many chemical and physical phenomena covered in the course.

IMPACT: None

EFFECTIVE DATE: Fall 2014

History

ADD: HIST 516 – The Modern Middle East. (3) I, II, S. History of Islam and the broader Middle East including North Africa since 1500. Topics covered include the rise of early modern empires, closer contact with Western Europe and East Asia, the impact of Western imperialism, state-sponsored defensive reforms, the development of religious modernism, social movements and constitutionalism, the emergence of nationalism, oil-dependent economies and rentier states, the origins of religious activism, and the contemporary struggle for civil rights. Pr.: Sophomore standing recommended. K-State 8: Historical Perspectives; Global Issues and Perspectives.

K-State 8 RATIONALE: The course provides students with a historical perspective on a region of global importance.

RATIONALE: This course is intended to serve as a critical introduction to the History of Islam, the Middle East and North Africa since 1500. It permits more thorough and detailed exploration of the history of this region in the modern period than is possible in HIST 112 (World History from 1450). The course will also fill a serious gap in the History Department's existing upper level course offerings. There is currently no history course described in the catalog with the Middle East, North Africa or Islam as its primary focus.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: HIST 517 – Iranian People Since Antiquity. (3) I, II, S. Critical introduction to the history, geography, society, politics, economy and culture of Iran (historical Persia) from prehistoric times to the present day. Pr.: Sophomore standing recommended. K-State 8: Historical Perspectives; Global Issues and Perspectives.

K-State 8 RATIONALE: The course provides students with a historical perspective on a region of global importance.

RATIONALE: This course is intended to serve as a critical introduction to the history of the Iranian plateau from antiquity to the modern period. It permits more thorough and detailed exploration of the history of this region in West Asia than is possible in the survey-level World History class. The course will fill a gap in the department's existing upper-level course offerings on this important region.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: HIST 584 – France and its Empire, 1815-Present. (3) I, II, S. Emphasis on the development of French democracy and France's place in the world. Covers the world wars and French imperialism as well as social and gender change in French history. Pr.: Sophomore standing recommended. K-State 8: Historical Perspectives; Global Issues and Perspectives.

K-State 8 RATIONALE: The course provides a historical perspective on a region of global importance.

RATIONALE: This class restores coverage of modern French history to the department's offerings, complementing and completing our sequence of courses in French history.

IMPACT: No impact, though may be of interest to French majors and minors who may be interested in modern French history and culture.

EFFECTIVE DATE: Fall 2014

Music, Theatre, and Dance

ADD: MUSIC 281 – West African Drumming and Percussion. (2) I, II. Explores several styles of drumming and african xylophone playing from the Ga, Dagara, and Ewe traditions from Ghana and other parts of West Africa. Instruction includes but is not limited to playing techniques and musical structure for drumming and xylophone playing as associated with common recreational dances. No prior experience is necessary. All musical instruments are supplied for class. Students may use their own instruments. K-State 8: Aesthetic Interpretation.

RATIONALE: To enhance the music environment and the university experience by diversifying the curriculum with world music styles, thus offering additional world music experiences otherwise not available to this campus community.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: THTRE 275 – Script Analysis. (3) I, II. Examination of the play script to develop a common vocabulary and method for analyzing a script. K-State 8: Aesthetic Interpretation.

K-State 8 RATIONALE: While managers in the theatre are involved in business practices, they must also be very aware and sensitive to the artistic product they are promoting and facilitating, as well as ways to translate the artists' message and communicate it to the public.

RATIONALE: Theatre students need to know how to read a script, how to take it apart into its separate components, and then understand how all the parts relate back to each other. While they each have specific individual aspects of a script they focus on as an actor, director, designer, or manager, this course will teach students a method for approaching script analysis so everyone in the department is speaking the same "language" as well as understanding of how each area of the theatre uses it in different ways. Please note that Script Analysis is a different process entirely than Dramatic Structure which is about genres of plays, styles or dramatic theories.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: THTRE 366 – Fundamentals of Theatre Management. (3) I, II. Non-profit theatre management, including budgeting, marketing, box office, and development practices, plus examination of relevant history. K-State 8: Aesthetic Interpretation; Empirical and Quantitative Reasoning.

K-State 8 RATIONALE: While managers in the theatre are involved in business practices, they must also be very aware and sensitive to the artistic product they are promoting and facilitating, as well as ways to translate the artist's message and communicate it to the public.

RATIONALE: The exploration of the areas of management in the theatre: marketing, box office, front of the house, and business management. Includes examination of relevant history and technology in these areas. This area at the basic introductory level has not been available to our majors and faculty felt that it needs to be added to our core requirements.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: THTRE 599 – Senior Seminar. (3) I, II. Students in their final year of study will develop skills for professional presentation and create a portfolio or audition based on the standards developed for the URTA National Unified Auditions/Interviews.

RATIONALE: Theatre students in their final year of study need to prepare for entry into the theatre profession. Students will create a culminating presentation dependent upon their concentration of study of either a portfolio or audition based on the standards developed for the URTA National Unified Auditions/Interviews.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Philosophy

FROM: PHILO 125 – Introduction to Philosophy of Science. (3) I, II. Examines the nature of science and how it differs from pseudo-sciences such as astrology, and raises questions about the nature of reality and social value of science. K-State 8: Empirical and Quantitative Reasoning.

TO: PHILO 125 – Introduction to Philosophy of Science. (3) I. II. Examines the nature of science and how it differs from pseudo-sciences such as astrology, and raises questions about the nature of reality and social value of science. K-State 8: Empirical and Quantitative Reasoning; Ethical Reasoning and Responsibility.

RATIONALE: An “E--Ethical Reasoning and Responsibility” K-State 8 tag should be added for this course because a significant portion of this course is dedicated to exploring ethical issues in the pursuit and application of science. For example, this course explores such questions as whether it is ethical to pursue certain scientific questions, what the ethical obligations of scientists are regarding gender in science, and the application of science in the public sphere. A major goal of the course is to provide students an understanding of the roles of values in scientific inquiry and testing. For example, this course typically includes some discussion of type I and type II errors and explores how different values and ethical considerations for prioritizing the avoidance of one type of error over another would justify different choices of experimental design and test. This course typically also discusses the values inherent in the choice of statistical inference methods, e.g. the choice between maximal likelihood and Bayesian methods often involves value commitments embedded in the purpose of the model (prediction, prediction under intervention, or convergence to the truth) and in the assumptions one is entitled to make in setting priors. Hence, the course concerns moral and other normative questions about scientific practice, about the social practices of scientists, and about the products of scientific work.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Sociology, Anthropology, and Social Work

ADD: ANTH 301 – Initiation to Anthropology. (3) I. Identify and apply the core elements of the anthropological perspective while learning professional and academic writing and presentation skills. Pr.: Declared Anthropology Major/Minor or Instructor Permission. K-State 8: Social Sciences.

RATIONALE: After carefully assessing our program and surveying our current majors, minors, and alums, we concluded that our program needs improvement in 3 areas: 1. Career advising and preparation, 2. Research opportunities for undergraduates, and 3. A stronger sense of community among majors and minors. We designed ANTH 301 as a required course as students enter the major/minor to immediately ground them in the anthropological perspective and to connect them with students, alumni and faculty who can offer career guidance and opportunities.

K-STATE 8 RATIONALE: Students will learn and apply core elements of the anthropological perspective, including qualitative ethnographic field methods.

IMPACT: None

EFFECTIVE DATE: Spring 2015

ADD: ANTH 333 – Plagues: The Co-Evolutionary History of Humans and Pathogens. (3) I, even years. ANTH 333 (“Plagues: Humans & Pathogens”) will explore the proximate (mechanistic/physiological) and ultimate (evolutionary) causes of disease from a biocultural and historical perspective. K-STATE 8: Natural and Physical Sciences; Historical Perspectives.

RATIONALE: To date, there is no class offered at Kansas State University that explores the coevolution of humans and disease. This is a relevant class as it teaches evolutionary principles and disease from an anthropological and historical perspective. As a 300-level class, ANTH 333 will provide students with the knowledge and the critical capacity to understand the interactions between humans and pathogens in the past as well as today.

K-State 8 RATIONALE: Plagues will carefully review the principles of evolutionary biology as they apply to the co-evolution of humans and pathogens. Evolutionary theory is central to the understanding of the evolution of life, and natural systems. Thus, this class fulfills the natural and physical sciences K-State-8 area description. In addition, the class reviews the coevolution of humans and pathogens within a historical context. As such, the class allows students to study and understand how past events have affect the course of this co-evolution. Historical knowledge of the conditions that have led to changes in disease patterns among human populations will allow the students to contextualize past and present epidemics.

IMPACT: Biology 330 (Public Health Biology) covers the “Fundamental concepts of human infectious and organic diseases with emphasis on disease etiology and mechanisms, collection of epidemiological data, and the influences upon, and consequences of, governmental public health policy”. However, BIOL 330 focuses on immediate (non-evolutionary) causes of diseases and public health policy. In contrast with that class, Plagues emphasizes the evolutionary causes of disease, and the relation between humans and pathogens from an evolutionary, historic, and anthropological perspective. Plagues does not review public health, or public health policy which is at the core of BIOL 330.

EFFECTIVE DATE: Fall 2014

CURRICULUM CHANGES

Undergraduate (Non-Expedited)

College of Arts and Sciences

Degree Requirements BA/BS

FROM:

TO:

<p>Bachelor of Arts and Bachelor of Sciences</p> <p>College of Arts and Sciences basic requirements</p> <p>The aim of these requirements is to provide breadth in the major areas of knowledge outside of the student's field of specialization. Introductory and intermediate-level courses are available in departments in humanities, social sciences, and natural sciences. Basic requirements are to be fulfilled with courses chosen by students in consultation with their advisor. The requirement in the humanities enables students to appreciate and understand creative and conceptual human endeavor.</p> <p>The requirement in the social sciences improves the student's ability to analyze and understand human social systems. The requirement in the natural sciences develops the student's knowledge of the principles of scientific method as they are applied in the life and physical science.</p> <p>Up to two courses from one department may be used to fulfill the distribution requirements for humanities and the social sciences. They may be used at the same time to count towards the student's major. No course may be used to satisfy more than one specific requirement for humanities and social sciences. Only courses taken for 2 or more credit hours satisfy these requirements; courses in excess of 5 credit hours count as two courses.</p> <p>At least 120 credit hours are required for graduation.</p> <p>Humanities</p>	<p>Bachelor of Arts and Bachelor of Sciences</p> <p>College of Arts and Sciences basic requirements</p> <p>The aim of these requirements is to provide breadth in the major areas of knowledge outside of the student's field of specialization. Introductory and intermediate-level courses are available in departments in humanities, social sciences, and natural sciences. Basic requirements are to be fulfilled with courses chosen by students in consultation with their advisor. The requirement in the humanities enables students to appreciate and understand creative and conceptual human endeavor.</p> <p>The requirement in the social sciences improves the student's ability to analyze and understand human social systems. The requirement in the natural sciences develops the student's knowledge of the principles of scientific method as they are applied in the life and physical science.</p> <p>Up to two courses from one department may be used to fulfill the distribution requirements for humanities and the social sciences. They may be used at the same time to count towards the student's major. No course may be used to satisfy more than one specific requirement for humanities and social sciences. Only courses taken for 2 or more credit hours satisfy these requirements; courses in excess of 5 credit hours count as two courses.</p> <p>At least 120 credit hours are required for graduation.</p> <p>Humanities</p>
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<p>Four courses, one course for each section, 11 credit hours minimum</p> <p>Fine arts (one course, or at least two credits) Purpose: to ensure some interpretive or expressive competence in a traditional nonliterary mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 515, 516, or 517 • Art—ART 301, 305, 400, 560, or 636 • Art History—any course • Art Technique—ART 200 to 799 • Dance—DANCE 120, 165, 171, 181, 460, 503, or 507 • Dean of Arts & Sciences—DAS 100 • Music—MUSIC 100, 112, 170, 210, 220, 230, 245, 250, 255, 280, 310, 385, 420, 424, 455, 480, 570, 601, or 650. • Theatre—THTRE 260 to 799 <p>Philosophy (one course) Purpose: to ensure some interpretive or expressive competence in the fundamental conceptual issues of human thought and activity.</p> <p>Choose any philosophy course except PHILO 110, 320, or 510.</p> <p>Western heritage (one course) Purpose: to ensure some interpretive or expressive competence regarding the institutions, traditions, and values that have shaped Western civilization.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • American Ethnic Studies—AMETH 160, 449, 450, 451, 452, 453, 454, 501, or 560 • Constitutional Law—POLSC 614, 615, or 799 • Dean of Arts & Sciences—DAS 300 • English—ENGL 230, 231, 233, or 234 (Western Humanities) • Foreign Civilizations—FREN 514, GRMN 530, SPAN 	<p>Four courses, one course for each section, 11 credit hours minimum</p> <p>Fine arts (one course, or at least two credits) Purpose: to ensure some interpretive or expressive competence in a traditional nonliterary mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 515, 516, or 517 • Art—ART 301, 305, 400, 560, or 636 • Art History—any course • Art Technique—ART 200 to 799 • <u>Environmental Design – ENVD 210</u> • Dance—DANCE 120, 165, 171, 181, 460, 503, or 507 • Dean of Arts & Sciences—DAS 100 • Music—MUSIC 100, 112, 170, 210, 220, 230, 245, 250, 255, 280, 310, 385, 420, 424, 455, 480, 570, 601, or 650. • Theatre—THTRE 260 to 799 <p>Philosophy (one course) Purpose: to ensure some interpretive or expressive competence in the fundamental conceptual issues of human thought and activity.</p> <p>Choose any philosophy course except PHILO 110, 320, or 510.</p> <p>Western heritage (one course) Purpose: to ensure some interpretive or expressive competence regarding the institutions, traditions, and values that have shaped Western civilization.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • American Ethnic Studies—AMETH 160, 449, 450, 451, 452, 453, 454, 501, or 560 • Constitutional Law—POLSC 614, 615, or 799 • Dean of Arts & Sciences—DAS 300 • English—ENGL 230, 231, 233, or 234 (Western Humanities) • Foreign Civilizations—FREN 514, GRMN 530, SPAN
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<p>565, SPAN 566, or SPAN 572</p> <ul style="list-style-type: none"> • History—courses dealing with the Greco-Roman, Western European, or North American experience; HIST 515 • History of Sport (cross-listed with KIN 515) • Kinesiology—KIN 515 (cross-listed with HIST 515) • Music—MUSIC 245 • Political Thought—POLSC 301, 661, 663, 667, 671, or 675 • Sociology—SOCIO 507 • Theatre—THTRE 572 or 573 • Women’s Studies—WOMST 105, 205, 410, 480, 500, 551, or 610 <p>Literary or rhetorical arts (one course) Purpose: to ensure some interpretive or expressive competence in a traditional literary or rhetorical mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • English—literature or creative writing—ENGL 220 to 799 except 300, 400, 415, 430, 435, 476, 490, 492, 499, 516, 600–604, 757, or 759 • Communication Studies—COMM 120, 325, or 480 • History of rhetoric—COMM 320, 330, 331, 430, 432, 434, 460, 725, 730, 732, 733, or POLSC 670 • Modern Languages—literature courses including literature in translation • Theatre—THTRE 370, 662, or 764 • Women’s Studies—WOMST 450 <p>Exception: Students in BS programs who take two courses in one foreign language may use these to satisfy the requirements for Western heritage and for literary and rhetorical arts.</p> <p>Social science</p> <p>Four courses, 12 credit hours minimum, from at least three</p>	<p>565, SPAN 566, or SPAN 572</p> <ul style="list-style-type: none"> • History—courses dealing with the Greco-Roman, Western European, or North American experience; HIST 515 • History of Sport (cross-listed with KIN 515) • Kinesiology—KIN 515 (cross-listed with HIST 515) • Music—MUSIC 245 • Political Thought—POLSC 301, 661, 663, 667, 671, or 675 • Sociology—SOCIO 507 • Theatre—THTRE 572 or 573 • Women’s Studies—WOMST 105, 205, 410, 480, 500, 551, or 610 <p>Literary or rhetorical arts (one course) Purpose: to ensure some interpretive or expressive competence in a traditional literary or rhetorical mode of artistic expression.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • English—literature or creative writing—ENGL 220 to 799 except 300, 400, 415, 430, 435, 476, 490, 492, 499, 516, 600–604, 757, or 759 • Communication Studies—COMM 120, 325, or 480 • History of rhetoric—COMM 320, 330, 331, 430, 432, 434, 460, 725, 730, 732, 733, or POLSC 670 • Modern Languages—literature courses including literature in translation • Theatre—THTRE 370, 662, or 764 • Women’s Studies—WOMST 450 <p>Exception: Students in BS programs who take two courses in one foreign language may use these to satisfy the requirements for Western heritage and for literary and rhetorical arts.</p> <p>Social science</p> <p>Four courses, 12 credit hours minimum, from at least three</p>
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<p>disciplines.</p> <p>Purpose: to acquaint students with the adaptation of scientific method to the analysis of human social systems.</p> <p>One course must be at 500 level or above, or carry a prerequisite in the same department.</p> <p>Three of the four courses must be from these areas:</p> <ul style="list-style-type: none"> • Cultural Anthropology—including archaeology • Economics—any course • Geography—any course except GEOG 221, 321, or 535 • History—any course • Mass Communications—MC 110, 112, 120, 180, 331, 396, 531, 576, 585, 600, 612, 623, or 670 • Political Science—any course • Psychology—any course • Sociology—any course • Social Work—SOCWK 510 <p>The fourth course must be from the above areas or from:</p> <ul style="list-style-type: none"> • American ethnic studies—AMETH 160, 499, 501, 550, or 650 • Anthropology—ANTH 345, 520, or 660 • Communication Studies—COMM 323, 326, 420, 425, 435, 526, 542, 550, 720, 726, 742, or 756 • Gerontology—GERON 315, 600, or 615 • Kinesiology—KIN 320, 330, 345, 346, or 435 • Linguistics—any course except LG 601 • Women’s Studies—WOMST 105, 205, 300, 450, 480, 500, 551, 590, or 610 <p>Natural sciences</p> <p>BS Degree: Four courses, 14 credit hours minimum. BA Degree: Three courses, 11 credit hours minimum.</p> <ol style="list-style-type: none"> 1. Life Sciences with a lab 2. Physical Sciences with a lab 3. Life or Physical Sciences, including additional Natural 	<p>disciplines.</p> <p>Purpose: to acquaint students with the adaptation of scientific method to the analysis of human social systems.</p> <p>One course must be at 500 level or above, or carry a prerequisite in the same department.</p> <p>Three of the four courses must be from these areas:</p> <ul style="list-style-type: none"> • Cultural Anthropology—including archaeology • Economics—any course • Geography—any course except GEOG 221, 321, or 535 • History—any course • Mass Communications—MC 110, 112, 120, 180, 331, 396, 531, 576, 585, 600, 612, 623, or 670 • Political Science—any course • Psychology—any course • Sociology—any course • Social Work—SOCWK 510 <p>The fourth course must be from the above areas or from:</p> <ul style="list-style-type: none"> • American ethnic studies—AMETH 160, 499, 501, 550, or 650 • Anthropology—ANTH 345, 520, or 660 • Communication Studies—COMM 323, 326, 420, 425, 435, 526, 542, 550, 720, 726, 742, or 756 • Gerontology—GERON 315, 600, or 615 • Kinesiology—KIN 320, 330, 345, 346, or 435 • Linguistics—any course except LG 601 • Women’s Studies—WOMST 105, 205, 300, 450, 480, 500, 551, 590, or 610 <p>Natural sciences</p> <p>BS Degree: Four courses, 14 credit hours minimum. BA Degree: Three courses, 11 credit hours minimum.</p> <ol style="list-style-type: none"> 1. Life Sciences with a lab 2. Physical Sciences with a lab 3. Life or Physical Sciences, including additional Natural
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<p>Science</p> <p>Life science (one 3- or 4-hour course with laboratory) Purpose: to introduce students to the systematic study of organisms and their interrelationships.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—any course • Biology—any course • Paleobiology—GEOL 581 or 704 • Physical anthropology—ANTH 280, 281, 680, 684, 688, 691, 694, or 695 <p>Physical science (one course with laboratory) Purpose: to introduce students to the appropriate attitudes and methods that characterize the systematic study of matter and energy.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—BIOCH 265 to 799 • Chemistry—any course • Physical geography—GEOG 221, 235, 445, 535, 735, or 740 • Geology—any course except GEOL 581 or 704 • Physics—any course <p>Additional Natural Sciences (for 3rd requirement only)</p> <ul style="list-style-type: none"> • Kinesiology—KIN 220 or 310 <p>4. BS Degree Only: One course, 3 credit hour minimum) with a prerequisite in the same department chosen from:</p> <ul style="list-style-type: none"> • Life or Physical Sciences listed in #3 above • Biochemistry course with a chemistry prerequisite • Dean of Arts & Sciences—DAS 333 • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 (you may use only one of these) • BIOL 310 does not fulfill this requirement <p>NOTE: Only courses taken for 2 or more credit hours satisfy these requirements and courses in excess of 5</p>	<p>Science</p> <p>Life science (one 3- or 4-hour course with laboratory) Purpose: to introduce students to the systematic study of organisms and their interrelationships.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—any course • Biology—any course • Paleobiology—GEOL 581 or 704 • Physical anthropology—ANTH 280, 281, 680, 684, 688, 691, 694, or 695 <p>Physical science (one course with laboratory) Purpose: to introduce students to the appropriate attitudes and methods that characterize the systematic study of matter and energy.</p> <p>Choose from the following:</p> <ul style="list-style-type: none"> • Biochemistry—BIOCH 265 to 799 • Chemistry—any course • Physical geography—GEOG 221, 235, 445, 535, 735, or 740 • Geology—any course except GEOL 581 or 704 • Physics—any course <p>Additional Natural Sciences (for 3rd requirement only)</p> <ul style="list-style-type: none"> • Kinesiology—KIN 220 or 310 • <u>Entomology – ENTOM 301</u> <p>4. BS Degree Only: One course, 3 credit hour minimum) with a prerequisite in the same department chosen from:</p> <ul style="list-style-type: none"> • Life or Physical Sciences listed in #3 above • Biochemistry course with a chemistry prerequisite • Dean of Arts & Sciences—DAS 333 • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 (you may use only one of these) • BIOL 310 does not fulfill this requirement <p>NOTE: Only courses taken for 2 or more credit hours satisfy these requirements and courses in excess of 5</p>
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<p>credit hours count as two courses.</p> <p>International studies overlay</p> <p>One course.</p> <p>Purpose: to equip students better to become citizens of a world where the most important problems are unavoidably defined in international terms and to understand cultures of the world outside the Western tradition.</p> <p>A student must take one course of which at least half is devoted to: economic, political, and social relations or interactions between or among different countries, in which the major focus is upon the interdependency of nations of the modern world; or contemporary features or historical traditions of non-Western cultures (excluding those dealing primarily with Greek, Roman, Western European, or North American experience).</p> <p>Students may satisfy the international studies requirement at the same time they satisfy requirements in the major, in the humanities, or the social sciences. These courses qualify:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 200, 204, 220, 260, 345,505, 508, 511, 512, 514, 515, 516, 517, 523, 536, 545, 550, 604, 618, 630, 634, 673, 676, or 792 • Communication Studies—COMM 480, 756, or 780 • Dean of Arts and Sciences—DAS 507, or 525 • Economics—ECON 505, 507, 536, 681, or 682 • English—ENGL 280, or 580 • Geography—GEOG 100, 200, 201, 505, 620, 622, 640, 650, or 715 • History—HIST 112, 250, 303, 330, 332, 501, 504, 505, 509, 510, 514, 543, 544, 545, 560, 561, 562, 571, 576, 577, 578, 591, 592, 593, or 598 • Mass Communications—MC 572, 623, 662, or 725 • Management—MANGT 690 • Marketing—MKTG 544 • Modern Languages—Any Level 4 or above language course in French, German, and Spanish, 	<p>credit hours count as two courses.</p> <p>International studies overlay</p> <p>One course.</p> <p>Purpose: to equip students better to become citizens of a world where the most important problems are unavoidably defined in international terms and to understand cultures of the world outside the Western tradition.</p> <p>A student must take one course of which at least half is devoted to: economic, political, and social relations or interactions between or among different countries, in which the major focus is upon the interdependency of nations of the modern world; or contemporary features or historical traditions of non-Western cultures (excluding those dealing primarily with Greek, Roman, Western European, or North American experience).</p> <p>Students may satisfy the international studies requirement at the same time they satisfy requirements in the major, in the humanities, or the social sciences. These courses qualify:</p> <ul style="list-style-type: none"> • Anthropology—ANTH 200, 204, 220, 260, 345,505, 508, 511, 512, 514, 515, 516, 517, 523, 536, 545, 550, 604, 618, 630, 634, 673, 676, or 792 • Communication Studies—COMM 480, 756, or 780 • Dean of Arts and Sciences—DAS 507, or 525 • Economics—ECON 505, 507, 536, 681, or 682 • English—ENGL 280, or 580 • <u>Environmental Design - ENVD 210</u> • Geography—GEOG 100, 200, 201, 505, 620, 622, 640, 650, or 715 • History—HIST 112, 250, 303, 330, 332, 501, 504, 505, 509, 510, 514, 543, 544, 545, 560, 561, 562, 571, 576, 577, 578, 591, 592, 593, or 598 • Mass Communications—MC 572, 623, 662, or 725 • Management—MANGT 690 • Marketing—MKTG 544 • Modern Languages—Any Level 4 or above
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<p>including translation courses</p> <ul style="list-style-type: none"> • Political Science—POLSC 333, 505, 511, 540, 541, 543, 545, 549, 622, 623, 624, 626, 627, 629, 642, 643, 645, 647, 651, 652, 653, or 655 • Sociology—SOCIO 363, 505, 507, 522, 535, 618, 635, or 742 • Women’s Studies—WOMST 380 405, or 580 <p>Students may use the fourth course in a single foreign language sequence (other than Latin) to satisfy the international studies overlay requirement.</p> <p>Additional requirements for the BA</p> <p>Foreign language Level 4 (i.e., French 4, German 4, Spanish 4, etc.) or the equivalent of level 4 in a foreign language sequence offered by the Department of Modern Languages. (Conversation "4A" courses do not meet the level 4 requirement.)</p> <p>Purpose: to bring students to a point at which they are able to proceed on their own to a command of a second language—a key for access both to a foreign culture and to much primary and secondary material in many special fields.</p> <p>Exception: Students who take a language that is normally offered for only two semesters (Latin 141 and 142, for example) may complete their requirement by taking two additional semesters in another language.</p> <p>Mathematics (One 3–credit–hour course, 100–799 level, or any other course for which there is a mathematics prerequisite)</p> <p>Purpose: to give students a college–level competence in mathematical reasoning and analysis.</p> <p>Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</p> <p>Additional requirements for the BS</p> <p>Natural sciences (One course, 3 credit hours minimum,</p>	<p>language course in French, German, and Spanish, including translation courses</p> <ul style="list-style-type: none"> • Political Science—POLSC 333, 505, 511, 540, 541, 543, 545, 549, 622, 623, 624, 626, 627, 629, 642, 643, 645, 647, 651, 652, 653, or 655 • Sociology—SOCIO 363, 505, 507, 522, 535, 618, 635, or 742 • Women’s Studies—WOMST 380 405, or 580 <p>Students may use the fourth course in a single foreign language sequence (other than Latin) to satisfy the international studies overlay requirement.</p> <p>Additional requirements for the BA</p> <p>Foreign language Level 4 (i.e., French 4, German 4, Spanish 4, etc.) or the equivalent of level 4 in a foreign language sequence offered by the Department of Modern Languages. (Conversation "4A" courses do not meet the level 4 requirement.)</p> <p>Purpose: to bring students to a point at which they are able to proceed on their own to a command of a second language—a key for access both to a foreign culture and to much primary and secondary material in many special fields.</p> <p>Exception: Students who take a language that is normally offered for only two semesters (Latin 141 and 142, for example) may complete their requirement by taking two additional semesters in another language.</p> <p>Mathematics (One 3–credit–hour course, 100–799 level, or any other course for which there is a mathematics prerequisite)</p> <p>Purpose: to give students a college–level competence in mathematical reasoning and analysis.</p> <p>Any course used to satisfy this requirement cannot be used to satisfy any other general education requirement.</p> <p>Additional requirements for the BS</p> <p>Natural sciences (One course, 3 credit hours minimum,</p>
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<p>with a prerequisite in the same department; for this requirement, biochemistry courses with a chemistry prerequisite qualify as upper-level courses.) Purpose: to give students who elect the bachelor of science degree an especially solid foundation in the natural sciences.</p> <p>Courses that qualify are those listed earlier under natural sciences, and:</p> <ul style="list-style-type: none"> • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 <p>Quantitative and abstract formal reasoning Purpose: to give students training in a clear, non-ambiguous, simplified language for the efficient transfer and logical analysis of information—a language in which a good deal of discussion is conducted in the sciences.</p> <p>A course that satisfies this requirement may at the same time be used to satisfy any major requirement for which it qualifies. Students may fulfill this requirement ONE of three ways:</p> <ol style="list-style-type: none"> 1. Three courses, 9 credit hours minimum, selected from: Computer science—CIS 111, 200 level or above Mathematics—MATH 100 level or above Philosophy—PHILO 110, 112, 320, or 510 Statistics—any course 2. One course and its Level II prerequisite, selected from: Geography—GEOG 700 (with a statistics course) Physics—PHYS 113 (with MATH 150) PHYS 223 (with MATH 221) PHYS 224 (with MATH 221) PHYS 325 (with MATH 222) PHYS 452 (with MATH 150) Sociology—SOCIO 520 (with STAT 325) Social work—SOCWK 330 and 530 (with MATH 100) 3. Equivalent competency: Competency may be demonstrated by taking two 	<p>with a prerequisite in the same department; for this requirement, biochemistry courses with a chemistry prerequisite qualify as upper-level courses.) Purpose: to give students who elect the bachelor of science degree an especially solid foundation in the natural sciences.</p> <p>Courses that qualify are those listed earlier under natural sciences, and:</p> <ul style="list-style-type: none"> • Kinesiology—KIN 330, 335, or 650 • Psychology—PSYCH 470 or 480 <p>Quantitative and abstract formal reasoning Purpose: to give students training in a clear, non-ambiguous, simplified language for the efficient transfer and logical analysis of information—a language in which a good deal of discussion is conducted in the sciences.</p> <p>A course that satisfies this requirement may at the same time be used to satisfy any major requirement for which it qualifies. Students may fulfill this requirement ONE of three ways:</p> <ol style="list-style-type: none"> 1. Three courses, 9 credit hours minimum, selected from: Computer science—CIS 111, 200 level or above Mathematics—MATH 100 level or above Philosophy—PHILO 110, 112, 320, or 510 Statistics—any course 2. One course and its Level II prerequisite, selected from: Geography—GEOG 700 (with a statistics course) Physics—PHYS 113 (with MATH 150) PHYS 223 (with MATH 221) PHYS 224 (with MATH 221) PHYS 325 (with MATH 222) PHYS 452 (with MATH 150) Sociology—SOCIO 520 (with STAT 325) Social work—SOCWK 330 and 530 (with MATH 100) 3. Equivalent competency: Competency may be demonstrated by taking two
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<p>Level II courses or a Level III course from:</p> <p>Level II courses (two courses): Computer science—CIS 200 Mathematics—MATH 150, 205, 210, or 312 Philosophy—PHILO 510 Statistics—STAT 325 or 340 or 350, 703</p> <p>Level III courses (one course): Computer science—CIS 300 Mathematics—MATH 220 Philosophy—PHILO 701 Statistics—STAT 341, 351, 704, or 705</p>	<p>Level II courses or a Level III course from:</p> <p>Level II courses (two courses): Computer science—CIS 200 Mathematics—MATH 150, 205, 210, or 312 Philosophy—PHILO 510 Statistics—STAT 325 or 340 or 350, 703</p> <p>Level III courses (one course): Computer science—CIS 300 Mathematics—MATH 220 Philosophy—PHILO 701 Statistics—STAT 341, 351, 704, or 705</p>
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RATIONALE: The courses (ENVD 210 and ENTOM 301) already meet the learning outcomes and the overarching goals of an Arts and Sciences degree. Moreover, when students transfer such courses from other institutions, we count them toward A&S degrees, but do not count such courses when offered by other colleges within our own university. Making this change would help students from other colleges fulfill the requirements in Arts & Sciences, if they change their major, and help dual degree candidates streamline their general requirements.

IMPACT: Architecture, Planning and Design and Agriculture

EFFECTIVE DATE: Fall 2014

Biochemistry and Molecular Biophysics

B.A. in Biochemistry, Medical Biochemistry Track

http://catalog.k-state.edu/preview_program.php?catoid=13&pooid=3316&returnto=1321

FROM:

Biochemistry seeks to understand the molecular events of life processes. It applies chemical and physical techniques to elucidate the structure and organization of molecules, particularly macromolecules that are responsible for the structural organization as well as operation and control of all cellular processes. The emerging knowledge has broad importance and consequences for all areas of the life sciences.

Bachelor's degree requirements
General requirements for undergraduate major: A total of 120 credit hours are required for graduation. The BA program, Medical Track, is obtained by following the curriculum of the College of Arts and Sciences.

To graduate, a student must have a grade of C or better in all science and mathematics courses required for the degree, including transfer courses, as specified below. In addition, to graduate a student must have a 2.2 GPA in required science and mathematics courses taken at K-State.

BIOCH 110 - Biochem & Society Credits: (3)

BIOCH 521 - Gen Biochemistry Credits (3)
BIOCH 522 - Gen Biochemistry Lab Credits (2)
BIOCH 571 - Medical Biochemistry Credits: (3)
~~BIOCH 756 - Biochem I Lab Credits (2)~~
~~BIOCH 757/758/766/767 - Biochem II Lab Credits (2)~~

BIOL 198 - Principles of Biology Credits: (4)
BIOL 450- Modern Genetics Credits: (4)
BIOL 455 - General Microbiology Credits: (4)
BIOL 541- Cell Biology Credits: (3)

CHM 210 - Chemistry I Credits: (4)
CHM 230 - Chemistry II Credits: (4)
CHM 371 - Chemical Analysis Credits: (4)
CHM 350 - Gen Org Chem Credits: (3)
CHM 351- Gen Org Lab Credits: (2)

MATH 220 - Analytic Geometry and Calculus Credits: (4)
~~MATH 221 - Analytic Geometry and Calculus II~~

TO:

Biochemistry seeks to understand the molecular events of life processes. It applies chemical and physical techniques to elucidate the structure and organization of molecules, particularly macromolecules that are responsible for the structural organization as well as operation and control of all cellular processes. The emerging knowledge has broad importance and consequences for all areas of the life sciences.

Bachelor's degree requirements
General requirements for undergraduate major: A total of 121 credit hours are required for graduation. The BA program, Medical Track, is obtained by following the curriculum of the College of Arts and Sciences.

To graduate, a student must have a grade of C or better in all science and mathematics courses required for the degree, including transfer courses, as specified below. In addition, to graduate a student must have a 2.2 GPA in required science and mathematics courses taken at K-State.

BIOCH 110 - Biochem & Society Credits (3)

BIOCH 521 - Gen Biochemistry Credits (3)
BIOCH 522 - Gen Biochemistry Lab Credits (2)
BIOCH 571 - Medical Biochemistry Credits: (3)
(BIOCH 755 - Biochemistry I Credits: (3))[#]
(BIOCH 799 - Biochemistry Research (1-3))[#]

BIOL 198 - Principles of Biology Credits: (4)
BIOL 450 - Modern Genetics Credits: (4)
BIOL 455 - General Microbiology Credits: (4)
BIOL 541 - Cell Biology Credits: (3)
BIOL 670 - Immunology Credits: (4)

CHM 210 - Chemistry I Credits: (4)
CHM 230 - Chemistry II Credits: (4)
CHM 371 - Chemical Analysis Credits: (4)
CHM350 - Gen Org Chem Credits: (3)
CHM351 - Gen Org Lab Credits: (2)

MATH 220 - Analytic Geometry and Calculus Credits: (4)

<p><u>Credits: (4)</u></p> <p>PHYS 113 - General Physics I Credits: (4) PHYS 114 - General Physics II Credits: (4)</p> <p>STAT701 Fundamentals of Biostatistics Credits (3)</p> <p>*Upper-division biochemistry, chemistry, biological science, statistics, computer science, analytical geometry and calculus III, or differential equations elective Credits: (20)</p> <p>Note: The courses above satisfy the mathematics and natural science requirements shown in the general requirements for the BA degree.</p> <p>A&S requirements Credits (32) For BA degree: Level 4 Foreign language Credits (4)</p> <p>Total hours required for graduation (120 credit hours)</p>	<p>PHYS 113 - General Physics I Credits: (4) PHYS 114 - General Physics II Credits: (4)</p> <p><u>STAT 340 - Biometrics I Credits (3)</u> <u>(STAT 341 - Biometrics II Credits (3)) #</u></p> <p>*Upper-division biochemistry, chemistry, biological science, statistics, computer science, analytical geometry and calculus III, or differential equations elective Credits: (20)</p> <p><u># The Medical Biochemistry BA plan requires one of the following three classes: STAT 341 (Biometrics II), BIOCH 755 (Biochemistry I) or BIOCH 799 (Biochemistry Research).</u></p> <p>Note: The courses above satisfy the mathematics and natural science requirements shown in the general requirements for the BA degree.</p> <p>A&S requirements Credits (32) For BA degree: Level 4 Foreign language Credits (4)</p> <p><u>Total hours required for graduation (121 credit hours)</u></p>
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RATIONALE: This is a non-expedited curriculum change. Biochemistry and Molecular Biophysics (BMB) seeks to modify the existing B.A.degree in Biochemistry, Medical Biochemistry Track. This program was created in 2012 to provide a framework for students who require specialized training in biochemistry in preparation for careers in medicine or related fields. BMB faculty designed the program following recommendations of the American Association of Medical Colleges (AAMC) and the American Society of Biochemistry and Molecular Biology (ASBMB). We propose some changes after more internal discussions and consultations with Dr. Susan Watt, pre-Health advisor of the College of Arts & Sciences. Dr. Watt pointed out that in its current form the requirement for MATH 221 (Calculus II) dissuades many pre-med/pre-vet students from selecting the major. Her advice concurs with the conclusions of the AAMC and the ASBMB, and our revision substitutes other classes more relevant to future careers in health professions (statistics, biochemistry or research). Dr. Watt also advised the addition of BIOL 670 (Immunology) to the plan, which we endorse. Additional discussions with Dr. Gary Gadbury, head of Statistics lead us to eliminate STAT 701 in favor of STAT 340 (Biometrics I) and the option of STAT 341 (Biometrics II). The proposal therefore involves the following overall modifications:

- change the requirement for STAT 701 to STAT 340 (Biometrics I; 3 credits)
- eliminate the requirement for MATH 221 (Calculus II; 4 credits), and instead require one of the three following classes in its place: STAT 341 (Biometrics I; 3 credits), BIOCH 755 (Biochemistry I; 3 credits) or BIOCH 799 (Biochemistry Research; 3 credits).
- add the requirement of BIOL 670 (Immunology; 3 credits).
- remove the requirements for Biochemistry I and II Laboratories (BIOCH 756; 2 credits, BIOCH 757; 2 credits). Their inclusion was a typographical error in the original submitted documentation, and not approved by faculty vote.

IMPACT: The changes potentially involve additional enrollment in STAT 340 (Biometrics I), and STAT 341, as one of three possible alternatives to MATH 221. BMB currently has 85 undergraduate majors, so we do not expect a dramatic increase in STAT 340/341: assuming one-third of these students elect to take it, in any individual year its enrollment may increase by ~10 students. The proposed changes also requires BIOL 670, but most pre-medical students already take this class, so we anticipate little impact on its enrollment. Aside from these ramifications we do expect that changes will affect other units.

EFFECTIVE DATE: Fall 2014

B.S. in Biochemistry, Medical Biochemistry Track

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=3317&returnto=1321

Add:

Biochemistry seeks to understand the molecular events of life processes. It applies chemical and physical techniques to elucidate the structure and organization of molecules, particularly macromolecules that are responsible for the structural organization as well as operation and control of all cellular processes. The emerging knowledge has broad importance and consequences for all areas of the life sciences.

Bachelor's degree requirements

General requirements for undergraduate major:

A total of 123 credit hours are required for graduation. The BS program, Medical Track, is obtained by following the curriculum of the College of Arts and Sciences.

To graduate, a student must have a grade of C or better in all science and mathematics courses required for the degree, including transfer courses, as specified below. In addition, to graduate a student must have a 2.2 GPA in required science and mathematics courses taken at K-State.

BIOCH 110 Biochem & Society Credits (3)

BIOCH 521 - Gen Biochemistry Credits (3)
BIOCH 522 - Gen Biochemistry Lab Credits (2)
BIOCH 571 - Medical Biochemistry Credits: (3)
BIOCH 755 Biochemistry I Credits: (3)#
BIOCH 765 Biochemistry II Credits: (3) #

BIOL 198 - Principles of Biology Credits: (4)
BIOL 450 Modern Genetics Credits: (4)
BIOL 455 General Microbiology Credits: (4)
BIOL 541 Cell Biology Credits: (3)
BIOL 670 Immunology Credits: (4)

CHM 210 - Chemistry I Credits: (4)
CHM 230 - Chemistry II Credits: (4)
CHM 371 - Chemical Analysis Credits: (4)
CHM350 Gen Org Chem Credits: (3)
CHM351 Gen Org Lab Credits: (2)

MATH 220 - Analytic Geometry and Calculus Credits: (4)

PHYS 113 - General Physics I Credits: (4)
PHYS 114 - General Physics II Credits: (4)

STAT 340 Biometrics I Credits (3)
STAT 341 Biometrics II Credits (3)

*Upper-division biochemistry, chemistry, biological science, statistics, computer science, analytical geometry and calculus III, or differential equations elective Credits: (20)

Students may take any 700- or higher-level 3-credit BMB classes as alternatives to BIOCH 755 and BIOCH 765.

Note: The courses above satisfy the mathematics and natural science requirements shown in the general requirements for the BS degree.

A&S requirements Credits (32)

Total hours required for graduation (123 credit hours)

RATIONALE: This is a non-expedited curriculum change. Biochemistry and Molecular Biophysics (BMB) seeks to create a B.S. degree in Biochemistry, Medical

Biochemistry Track. A Medical Biochemistry B.A. degree was created in 2012 to provide a framework for students who require pre-veterinary, pre-medical, pre-dental or pre-nursing training prior to pursuing those advanced degrees. We propose to add the B.S. program after more internal discussions and consultations with Dr. Susan Watt, pre-Health advisor of the College of Arts & Sciences. Dr. Watt pointed out that the requirements of the existing B.A. degree plan for MATH 221 (Calculus II) and Level 4 Foreign Language dissuade most pre-med/pre-vet students from selecting the major. This application will create a B.S. program that eliminates MATH 221 and the Level 4 language requirement, in favor of classes more relevant to future health professions (additional classes in statistics, biochemistry and/or research). The proposed changes are consistent with the recommendations of the American Association of Medical Colleges (AAMC) and the American Society of Biochemistry and Molecular Biology (ASBMB). Dr. Watt suggested inclusion of BIOL 670 (Immunology) in the plan, which we endorse, and Dr. Gary Gadbury, head of Statistics, advised us to replace STAT 701 with STAT 340 (Biometrics I) and STAT 341 (Biometrics II). Relative to the B.A. in Medical Biochemistry, the B.S. degree plan has the following overall modifications:

- eliminate the requirement for Calculus II (MATH 221; 4 credits), and instead require more comprehensive statistics (replaces STAT 701 with STAT 340 and STAT 341, Biometrics I & II), as well as more classes in biochemistry (BIOCH 755 and BIOCH 765; Biochemistry I and II;) and Immunology (BIOL 670; 3 credits).
- the B.S. degree plan does not contain a requirement for Level 4 language
- remove the requirements for Biochemistry I and II Laboratories (BIOCH 756; 2 credits, BIOCH 757; 2 credits). Their inclusion was a typographical error in the original submitted documentation, and not approved by faculty vote.

IMPACT: The changes potentially involve additional enrollment in STAT 340/341 (Biometrics I/II). BMB currently has 85 undergraduate majors, so we do not expect a dramatic increase in STAT 340/341 numbers: assuming one-third of these students elect to take it, in any individual year enrollment in either class may increase by ~10 students. The proposed change also requires BIOL 670 (Immunology), but most pre-medical students already take this class, so we anticipate little impact on its enrollment. Aside from these ramifications we do expect that changes will affect other units.

EFFECTIVE DATE: Fall 2014

Chemistry

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=3293&returnto=1327

Chemistry BA/BS, Chemical Science Program

FROM:

TO:

Existing Chemical Science Program	Proposed Chemical Science Program
Chemical science program Chemistry (25-27 credit hours)	Chemical science program Chemistry (25-27 credit hours)
CHM 200 - Frontiers in Chemistry Credits: (0)	CHM 200 - Frontiers in Chemistry Credits: (0)
CHM 531- Organic Chemistry I Credits: (3)	CHM 531- Organic Chemistry I Credits: (3)
CHM 532- Organic Chemistry Laboratory Credits: (2)	CHM 532 -Organic Chemistry Laboratory Credits: (2)
CHM 550 -Organic Chemistry II Credits: (3)	CHM 550 -Organic Chemistry II Credits: (3)
CHM 566 - Instrumental Methods of Analysis Credits: (3)	
CHM 596 - Physical Methods Laboratory Credits: (1-2)	Choose from the following:

<p>Choose from the following: Or CHM 220 - Honors Chemistry I Credits: (5) and CHM 250- Honors Chemistry II Credits: (5) CHM 210 -- Chemistry I Credits: (4) and CHM 230- Chemistry II Credits: (4) and CHM 371 -Chemical Analysis Credits: (4) Choose from the following: CHM 500 -General Physical Chemistry Credits: (3) Or CHM 585 -Physical Chemistry I Credits: (3) Biochemistry (5 credit hours) BIOCH 521 - General Biochemistry Credits: (3) BIOCH 522 -General Biochemistry Laboratory Credits: (2) Mathematics (8 credit hours) MATH 220 -Analytic Geometry and Calculus I Credits: (4) MATH 221- Analytic Geometry and Calculus II Credits: (4) Physics (8 credit hours) PHYS 113- General Physics I Credits: (4) PHYS 114 -General Physics II Credits: (4)</p> <p>Total credit hours required for graduation: (120)</p>	<p>Or CHM 220 - Honors Chemistry I Credits: (5) and CHM 250- Honors Chemistry II Credits: (5) CHM 210 -Chemistry I Credits: (4) and CHM 230 - Chemistry II Credits: (4) and CHM 371 -Chemical Analysis Credits: (4) <u>Choose from the following:</u> <u>CHM 315 – Environmental Science: A Chemistry Perspective Credits: (3)</u> <u>and</u> <u>CHM 316 – Environmental Science: A Chemistry Perspective Laboratory Credits: (1)</u> <u>Or</u> <u>CHM 566 – Instrumental Methods of Analysis Credits: (3)</u> <u>and</u> <u>CHM 596 – Physical Methods Laboratory Credits: (1-2)</u> Choose from the following: CHM 500 - General Physical Chemistry Credits: (3) Or CHM 585 -Physical Chemistry I Credits: (3) Biochemistry (5 credit hours) BIOCH 521- General Biochemistry Credits: (3) BIOCH 522 -General Biochemistry Laboratory Credits: (2) Mathematics (8 credit hours) MATH 220 -Analytic Geometry and Calculus I Credits: (4) MATH 221 - Analytic Geometry and Calculus II Credits: (4) Physics (8 credit hours) PHYS 113 -General Physics I Credits: (4) PHYS 114 - General Physics II Credits: (4)</p> <p>Total credit hours required for graduation: (120)</p>
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RATIONALE: Approximately half of our Chemical Science majors are dual majors. These students require more practical training related to their future careers. The Instrumental Analysis course and Physical Methods laboratory currently offered in the curriculum provide fundamental or theoretical training. Addition of the Environmental Science course and its laboratory would allow these students the option to choose more practical training with an emphasis on environmental chemistry.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Sociology, Anthropology, and Social Work

Anthropology BA/BS

FROM:

TO:

<p>Entrance requirements for anthropology majors</p> <p>Students interested in becoming anthropology majors should consult with faculty advisors. To be admitted as an anthropology major, a student must present evidence of having earned a cumulative GPA of at least 2.5 based on a minimum of 12 credit hours earned at K-State. Pre-anthropology majors will be advised in the program.</p> <p>Students transferring from other institutions with a GPA of 2.5 or higher will be accepted as majors when they have fulfilled the above requirements.</p> <p>To graduate with a bachelor's degree in anthropology, a student must fulfill program requirements and have a cumulative GPA of 2.5 or higher on all anthropology course work undertaken at Kansas State University.</p> <p>Bachelor's degree requirements</p> <hr/> <p>In addition to the general BA or BS requirements, anthropology majors take a minimum of 30 hours in anthropology as follows:</p> <p>Introductions to the four subfields (12 credit hours)</p> <hr/> <ul style="list-style-type: none"> • ANTH 200 – Introduction to Cultural Anthropology Credits: (3) • or • ANTH 204 – A General Education Introduction to Cultural Anthropology Credits: (3) • or 	<p>Entrance requirements for anthropology majors</p> <p>Students interested in becoming anthropology majors should consult with faculty advisors. To be admitted as an anthropology major, a student must present evidence of having earned a cumulative GPA of at least 2.5 based on a minimum of 12 credit hours earned at K-State. Pre-anthropology majors will be advised in the program.</p> <p>Students transferring from other institutions with a GPA of 2.5 or higher will be accepted as majors when they have fulfilled the above requirements.</p> <p>To graduate with a bachelor's degree in anthropology, a student must fulfill program requirements and have a cumulative GPA of 2.5 or higher on all anthropology course work undertaken at Kansas State University.</p> <p>Bachelor's degree requirements</p> <hr/> <p>In addition to the general BA or BS requirements, anthropology majors take a minimum of <u>34</u> hours in anthropology as follows:</p> <p>Introductions to the four subfields (<u>13</u> credit hours)</p> <hr/> <ul style="list-style-type: none"> • ANTH 200 – Introduction to Cultural Anthropology Credits: (3) • or • ANTH 204 – A General Education Introduction to Cultural Anthropology Credits: (3) • or
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- ANTH 210 – Introduction to Cultural Anthropology, Honors **Credits:** (4)
- ANTH 220 – Introduction to Linguistic Anthropology **Credits:** (3)
- ANTH 260 – Introduction to Archeology **Credits:** (3)
- ANTH 280 – Introduction to Biological Anthropology **Credits:** (4)

Advanced electives (15 credit hours)

-
- Five advanced electives distributed among three or more subfields.
 - 15 hours at or above the 300 level. At least 9 of these must be at or above the 500 level.
 - Students are strongly encouraged to include at least one methods course:
 - ANTH 777 – Research Methods in Digital Ethnography **Credits:** (3)
 - ANTH 678 – Archaeological Laboratory Methods **Credits:** (3)
 - ANTH 679 – Archaeological Field Methods **Credits:** (3)
 - ANTH 694 – Osteology **Credits:** (3)
 - and
 - ANTH 695 – Laboratory in Osteology **Credits:** (1)
 - ANTH 730 – Field and Laboratory Techniques in Archaeology **Credits:** (1–9)
 - ANTH 792 – Field Methods in Linguistics **Credits:** (3)

Capstone course

-
- ANTH 602 – Anthropological Theory **Credits:** (3)

- ANTH 210 – Introduction to Cultural Anthropology, Honors **Credits:** (4)
- ANTH 220 – Introduction to Linguistic Anthropology **Credits:** (3)
- ANTH 260 – Introduction to Archeology **Credits:** (3)
- ANTH 280 – Introduction to Biological Anthropology **Credits:** (4)

Initiation to Anthropology Course

- ANTH 301: Initiation to Anthropology Credits: (3)

Advanced electives (15 credit hours)

-
- Five advanced electives distributed among three or more subfields.
 - 15 hours at or above the 300 level. At least 9 of these must be at or above the 500 level.
 - Students are strongly encouraged to include at least one methods course:
 - ANTH 777 – Research Methods in Digital Ethnography **Credits:** (3)
 - ANTH 678 – Archaeological Laboratory Methods **Credits:** (3)
 - ANTH 679 – Archaeological Field Methods **Credits:** (3)
 - ANTH 694 – Osteology **Credits:** (3)
 - and
 - ANTH 695 – Laboratory in Osteology **Credits:** (1)
 - ANTH 730 – Field and Laboratory Techniques in Archaeology **Credits:** (1–9)
 - ANTH 792 – Field Methods in Linguistics **Credits:** (3)

Capstone course

-
- ANTH 602 – Anthropological Theory **Credits:** (3)

<p>Note</p> <hr/> <p>Many anthropology students prepare for the variety of occupations concerned with human relations by combining anthropological study with other training, frequently by majoring in two fields. Each program of study is worked out individually by a student and his or her advisor. Interested students may obtain additional information from the <i>Guide for Prospective Anthropology Majors</i>, which is available from the anthropology program coordinator.</p> <p>Total credit hours required for graduation: (120)</p>	<p>Note</p> <hr/> <p>Many anthropology students prepare for the variety of occupations concerned with human relations by combining anthropological study with other training, frequently by majoring in two fields. Each program of study is worked out individually by a student and his or her advisor. Interested students may obtain additional information from the <i>Guide for Prospective Anthropology Majors</i>, which is available from the anthropology program coordinator.</p> <p>Total credit hours required for graduation: (120)</p>
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RATIONALE: After carefully assessing our program and surveying our current majors, minors, and alums, we concluded that our program needs improvement in 3 areas: 1. Career advising and preparation, 2. Research opportunities for undergraduates, and 3. A stronger sense of community among majors and minors. We designed ANTH 301 as a required course as students enter the major/minor to immediately ground them in the anthropological perspective and to connect them with students, alumni and faculty who can offer career guidance and opportunities.

In addition, there was a minor error in which our Intro courses are listed as 12 hours when in fact they total 13 due to the required lab for ANTH 280 (a 4 credit class).

IMPACT: None

EFFECTIVE DATE: Spring 2015

Social Work BA/BS

FROM:

TO:

<p>Bachelor's degree requirements</p> <p>Tool and related courses required (13 credit hours)</p>	<p>Bachelor's degree requirements</p> <p>Tool and related courses required (13 credit hours)</p>
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<ul style="list-style-type: none"> • ANTH 200 – Introduction to Cultural Anthropology Credits: (3) • or • ANTH 204 – A General Education Introduction to Cultural Anthropology Credits: (3) • BIOL 198 – Principles of Biology Credits: (4) • PSYCH 110 – General Psychology Credits: (3) • SOCIO 211 – Introduction to Sociology Credits: (3) <p>Tool and related courses elective (6 credit hours)</p>	<ul style="list-style-type: none"> • ANTH 200 – Introduction to Cultural Anthropology Credits: (3) • or • ANTH 204 – A General Education Introduction to Cultural Anthropology Credits: (3) • BIOL 198 – Principles of Biology Credits: (4) • PSYCH 110 – General Psychology Credits: (3) • SOCIO 211 – Introduction to Sociology Credits: (3) <p>Tool and related courses elective (6 credit hours)</p>
<ul style="list-style-type: none"> • ECON 110 – Principles of Macroeconomics Credits: (3) • or • ECON 120 – Principles of Microeconomics Credits: (3) • POLSC 110 – Introduction to Political Science Credits: (3) • or • POLSC 301 – Introduction to Political Thought Credits: (3) <p>Human behavior and the social environment content (6 credit hours)</p>	<ul style="list-style-type: none"> • ECON 110 – Principles of Macroeconomics Credits: (3) • or • ECON 120 – Principles of Microeconomics Credits: (3) • POLSC 110 – Introduction to Political Science Credits: (3) • or • POLSC 301 – Introduction to Political Thought Credits: (3) • <u>or</u> • <u>POLSC 115 – US Politics Credits: (3)</u> <p>Human behavior and the social environment content (6 credit hours)</p>
<ul style="list-style-type: none"> • SOCWK 315 – Human Behavior in the Social Environment I Credits: (3) • SOCWK 525 – Human Behavior and the Social Environment II Credits: (3) <p>Social work practice content (15 credit hours)</p>	<ul style="list-style-type: none"> • SOCWK 315 – Human Behavior in the Social Environment I Credits: (3) • SOCWK 525 – Human Behavior and the Social Environment II Credits: (3) <p>Social work practice content (15 credit hours)</p>
<ul style="list-style-type: none"> • SOCWK 200 – Basic Skills for Working with People Credits: (3) 	<ul style="list-style-type: none"> • SOCWK 200 – Basic Skills for Working with People Credits: (3)

<ul style="list-style-type: none"> • SOCWK 560 – Social Work Practice I Credits: (3) • SOCWK 561 – Social Work Practice II Credits: (3) • SOCWK 568 – Social Work Practice III Credits: (3) • SOCWK 570 – Social Work with Groups Credits: (3) <p>Research content (9 credit hours)</p>	<ul style="list-style-type: none"> • SOCWK 560 – Social Work Practice I Credits: (3) • SOCWK 561 – Social Work Practice II Credits: (3) • SOCWK 568 – Social Work Practice III Credits: (3) • SOCWK 570 – Social Work with Groups Credits: (3) <p>Research content (9 credit hours)</p>
<ul style="list-style-type: none"> • MATH 100 – College Algebra Credits: (3) • SOCWK 330 – Social Work Research Methods and Analysis I Credits: (3) • SOCWK 530 – Social Work Research Methods and Analysis II Credits: (3) <p>Social policy content (6 credit hours)</p>	<ul style="list-style-type: none"> • MATH 100 – College Algebra Credits: (3) • SOCWK 330 – Social Work Research Methods and Analysis I Credits: (3) • SOCWK 530 – Social Work Research Methods and Analysis II Credits: (3) <p>Social policy content (6 credit hours)</p>
<ul style="list-style-type: none"> • SOCWK 510 – Social Welfare as a Social Institution Credits: (3) • SOCWK 565 – Social Policy Credits: (3) <p>Field Practicum (14 credit hours)</p>	<ul style="list-style-type: none"> • SOCWK 510 – Social Welfare as a Social Institution Credits: (3) • SOCWK 565 – Social Policy Credits: (3) <p>Field Practicum (14 credit hours)</p>
<ul style="list-style-type: none"> • SOCWK 550 – Field Practicum Preparation Credits: (2) • SOCWK 562 – Field Experience Credits: (10) • SOCWK 564 – Social Work Professional Seminar Credits: (2) <p>Total credit hours required for graduation: (120)</p>	<ul style="list-style-type: none"> • SOCWK 550 – Field Practicum Preparation Credits: (2) • SOCWK 562 – Field Experience Credits: (10) • SOCWK 564 – Social Work Professional Seminar Credits: (2) <p>Total credit hours required for graduation: (120)</p>

RATIONALE: POLSC 115 – US Politics offers relevant content for social workers and the program wishes it to also fulfill our Political Science requirement (in addition to 301 and 110). Presently, the Dean’s Office approves this course when we ask them to; we hope to change this in the catalogue so that continual contact with and requests of the Dean’s office are not necessary. In addition, it will provide our majors and transfer students’ additional options for social science requirements.

IMPACT: Political Science

EFFECTIVE DATE: Fall 2014

College of Engineering (4-3-14)

Non-Expedited COURSE PROPOSALS
Courses Numbered 000-599

Computing and Information Sciences

Change: CIS 101 - Introduction to Computing Systems, ~~Information Search, and Security~~ (1). Introduction to ~~basic computer and Internet security including basic computer security and privacy issues, computer networks, malware protection; effective use of the Internet as a resource including website evaluation and effective search tools and techniques.~~

Note

One hour lecture, ~~two hours scheduled laboratory,~~ and two hours unscheduled open laboratory each week. Course meets in one contiguous block of ~~four~~ weeks.

Requisites

None

When Offered

Fall, Spring, Summer

To: CIS 101 - Introduction to Computing Systems (1). Introduction to computer hardware, securing your system, networking, understanding application and system software, and effective use of the Internet as a resource including website evaluation and use of search tools and techniques.

Note

One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites

None

When Offered

Fall, Spring, Summer

Rationale: Current course description not reflective of the current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course

work within such a short time frame. Current Course title also needs to be truncated since "Information Search, and Security" are no longer objectives of the course.

Effective: Fall 2014

Impact: The following heads of the affected departments were officially notified of the change from a four week to eight week format in March of 2013. Changes were not implemented until the Fall 2013 semester.

- Barbara Anderson - Apparel, Textiles, and Interior Design
- Kenneth G. Odde - Animal Sciences and Industry
- Stacy Kovar – Business Administration*
- Alison Wheatley – Arts & Sciences

*This course is no longer required by Business Administration. It serves only as an optional prerequisite for some of the required courses.

Change: CIS 102 - Introduction to Spreadsheet Applications (1). Designing, building, ~~and~~ modifying spreadsheets. ~~Addressing techniques and formatting.~~ Use of formulas ~~and~~ functions. ~~Spreadsheets as management and decision tools. Charting of data.~~

Note

One hour lecture, ~~two hours scheduled laboratory,~~ and two hours unscheduled open laboratory each week. Course meets in one contiguous block of ~~four~~ weeks.

Requisites

None.

When Offered

Fall, Spring, Summer

To: CIS 102 - Introduction to Spreadsheet Applications (1). Designing, building, modifying and formatting spreadsheets. Use of formulas, functions and charts. Editing document properties and printing. Using large spreadsheets as management, decision and goal seeking tools.

Note

One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites

None.

When Offered

Fall, Spring, Summer

Rationale: Current course description requires minor modification to reflect current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame.

Effective: Fall 2014.

Impact: The following heads of the affected departments were officially notified of the change from a four week to eight week format in March of 2013. Changes were not implemented until the Fall 2013 semester.

- Barbara Anderson - Apparel, Textiles, and Interior Design
- Kenneth G. Odde - Animal Sciences and Industry
- Stacy Kovar – Business Administration*
- Alison Wheatley – Arts & Sciences

*This course is no longer required by Business Administration. It serves only as an optional prerequisite for some of the required courses.

Change: CIS 103 - Introduction to Database Applications (1). Design, create, modify, and maintain relational databases. ~~Create relationships. Add and modify data. Search and query database. Design and create screen forms and reports.~~

Note

One hour lecture, ~~two hours scheduled laboratory,~~ and two hours unscheduled open laboratory each week. Course meets in one contiguous block of ~~four~~ weeks.

Requisites

None.

When Offered

Fall, Spring, Summer

To: CIS 103 - Introduction to Database Applications (1). Design, create, modify, and maintain relational databases. Creating and modifying tables, relationships, queries, and forms. Add and modify data to the tables. Database backup and recovery. Search, sort and query database. Database maintenance.

Note

One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites

None.

When Offered

Fall, Spring, Summer

Rationale: Current course description requires minor modification to reflect current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame.

Effective: Fall 2014

Impact: The following heads of the affected departments were officially notified of the change from a four week to eight week format in March of 2013. Changes were not implemented until the Fall 2013 semester.

- Barbara Anderson - Apparel, Textiles, and Interior Design
- Kenneth G. Odde - Animal Sciences and Industry
- Stacy Kovar – Business Administration*
- Alison Wheatley – Arts & Sciences

*This course is no longer required by Business Administration. It serves only as an optional prerequisite for some of the required courses.

Change: CIS 104 - Introduction to Word Processing Applications (1). Basic features of word processing. ~~Create and edit a document. View, format, and customize document. Revise, update, and rearrange text. Add graphics. Support features. Merge documents.~~

Note

One hour lecture, ~~two hours scheduled laboratory~~, and two hours unscheduled open laboratory each week. Course meets in one contiguous block of ~~four~~ weeks.

Requisites

None

When Offered

Fall, Spring, Summer

To: CIS 104 - Introduction to Word Processing Applications (1). Basic features of word processing that include creating, formatting, and editing a document. Inserting and formatting pictures within a document. Revise, update, and rearrange text. Changing document properties and printing the document. Creating a research paper and a business letter.

Note

One hour lecture and two hours unscheduled open laboratory each week. Course meets in one contiguous block of eight weeks.

Requisites

None

When Offered

Fall, Spring, Summer

Rationale: Current course description requires minor modification to reflect current content of the course. Course has also been shifted from a 4-week course to an 8-week course to allow better coverage of the content of the course. Students were struggling to complete the course work within such a short time frame.

Effective: Fall 2014

Impact: The following heads of the affected departments were officially notified of the change from a four week to eight week format in March of 2013. Changes were not implemented until the Fall 2013 semester.

- Barbara Anderson - Apparel, Textiles, and Interior Design
- Kenneth G. Odde - Animal Sciences and Industry
- Stacy Kovar – Business Administration*
- Alison Wheatley – Arts & Sciences

*This course is no longer required by Business Administration. It serves only as an optional prerequisite for some of the required courses.

Graduate Council (4-1-14)

Non-Expedited Course Changes

<p>MANGT 623 Compensation and Performance Management Credits: (3) An in-depth critique of compensation system design and performance management strategies needed to attract, retain, develop and motivate the human capital required for organizational effectiveness and strategic success.</p> <p>Requisites: Prerequisites: Mangt 531.</p> <p>When Offered: Spring</p>	<p>MANGT 623 Compensation and Performance Management Credits: (3) An in-depth critique of compensation system design and performance management strategies needed to attract, retain, develop and motivate the human capital required for organizational effectiveness and strategic success.</p> <p>Requisites: Prerequisites <u>or concurrent:</u> Mangt 531.</p> <p>When Offered: Spring</p>
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Rationale: Changing the pre-requisites to allow Mangt 623 to be taken concurrently with Mangt 531 will enable students to complete all courses needed for the HRM emphasis in the Management major in a timely manner.

Impact on Other Units: None

Effective Date: Fall 2014

<p>POLSC 650 – Not-For-Profit Management. (3) Unique management issues in terms of policy setting, participation, and accountability of non-profit organizations. Pr.: Senior or Graduate Standing.</p>	<p><u>POLSC 740 – Nonprofit Financial Management. (3) I. Introduction to the major issues in nonprofit management. Highlights the unique nature of the nonprofit sector with government (public) and business (for-profit) sectors. Issues may include governance roles and responsibilities, ethics and risk management, financial management and resource generation, managing staff and volunteers, performance measurements, and the emerging trends that threaten nonprofits' tax-exempt status. Pr.: Graduate Student Standing.</u></p>
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RATIONALE: Course name and number changes better reflect course content and student level at which course is directed.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Non-Expedited New Courses

Course Add
KIN 614 Physical Activity Behavior Settings: Youth Sport to Senior Centers
Credits: (3)
The course is a study of key physical activity behavior settings across life-span development. Topics include observation of social and physical environmental variables, surveillance of physical activity in behavior settings, motivational theory and responses, setting interventions and developmental outcomes, and intervention evaluation methods.
When Offered: Spring
Pre-Requisite: KIN 310 and KIN 345 with grades of C or higher
K-State 8 TAG: Social Sciences
K-State 8 TAG Rationale: Covers the social science of physical activity.

Rationale: This course extends the 600 level offerings for public health physical activity emphasis. Students will learn how to develop effective physical activity interventions in the community.

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

Effective: Spring 2015

MANGT 643 – Staffing Organizations

Credits: (3) This course focuses on recruitment, selection, and retention issues, including an in-depth consideration of legal and practical issues involved in the acquisition and retention of human resources, including detailed coverage of job analysis, criterion development, recruitment strategies, and techniques and procedures for ensuring valid and effective selection of employees.

Requisites: Prerequisite or concurrent: MANGT 531.

When Offered: Fall

Rationale: Adding a staffing course will improve the preparation of our HRM emphasis students in the Management major. This addition will bring our HRM curriculum into strong compliance with the recommendations of recent national HRM curricular studies (which included students, business professionals, and academics) and the main HRM professional association (Society of Human Resource Management).

Impact on Other Units: None.

Effective Date: Fall 2014

ADD: ART 621 – Advanced Concepts in Lens-Based Media. (3) I, II. Introduction to various lens-based media and interdisciplinary practices related to the medium of photography. Pr.: ART 395, 563. K-State 8: Aesthetic Interpretation.

RATIONALE: This course will allow a wider range of practices such as video, installation and other contemporary extension of photographic practices.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: GEOL 760 – Geochemical and Biogeochemical Modeling. (3) I. Use of geochemical modeling to examine geochemical and biogeochemical processes in aqueous environments. Pr.: CHM 210, CHM 230 (or CHM 220, CHM 250), GEOL 605. K-STATE 8: Natural and Physical Sciences; Empirical and Quantitative Reasoning.

RATIONALE: The Department of Geology seeks to add the course “Biogeochemical Modeling” to its curriculum. The course will provide students with valuable training that is currently unavailable on campus. Students in the course will use geochemical modeling techniques to analyze and simulate complex geochemical systems. In doing so, they will develop in-depth knowledge of geochemical processes and acquire marketable skills that will promote future career opportunities in academia, industry, and government. In addition, inquiry-based learning exercises used throughout the course will greatly enrich the students’ understanding of advanced topics in geochemistry and biogeochemistry.

IMPACT: No other geochemical or biochemical modeling courses are offered at K-State. The course, therefore, does not duplicate the course offering of any other department or unit. However, the course could enhance curricula available to students in other departments, including Biology, Civil Engineering, Agronomy, and Geography.

EFFECTIVE DATE: Fall 2014

ADD: POLSC 608 – Political Participation in the United States. (3) II. A broad overview of the various tools of democracy; public opinion, political parties, interest groups, and elections. K-State 8: Social Sciences; Historical Perspectives. Pr.: POLCS 110 or POLSC 115 or junior standing.

RATIONALE:In an effort to aid in the development of politically aware and active citizens we are combining an exposure to the various tools of democratic politics in a single course. The specific tools available for participation in democratic politics include public opinion, voting and elections, political parties, and interest groups. Upon completion of this course students will understand and appreciate how they can better fulfill the political responsibilities of American citizens.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: POLSC 610 – Local Government Law. (3) I. Explores the dynamic relationship between states and cities. Major issues may include budget shortfalls, social issues, and sprawl. Focus on the legal framework of state and city powers, including the forms of government, state preemption, and home rule theory and practice. Pr.: POLSC 110 or POLSC 115 or junior standing. K-STATE 8: Social Sciences.

RATIONALE:State and local government laws and regulations impact the vast majority of our everyday decisions. A deeper knowledge of these laws and regulations will help out students to understand the applications and limitations of governmental powers relative to their POLSC professional and personal experiences.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: POLSC 702 – Public Administration and Society. (3) I. Introduction to the discipline and profession of public administration, which may include the cultural, constitutional, institutional, organizational, and ethical context of public administration. Introduction to central issues facing public administrators, using the related perspectives of management, politics, and law. Pr.: POLSC 507.

RATIONALE: This course is a critical element in a broader restructuring of our Master of Public Administration curriculum which is designed to more closely map the skill sets required of public managers in the 21st century. This will be the first course taken by our students. It will introduce them to the general challenges confronted by public administrators in a democratic society.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: POLSC 736 – Strategic Management of Public Organizations. (3) II. Strategic management in the public sector of democratic societies. Provides a set of tools and research skills to focus thinking, judgment and decision making in order to act strategically. Pr.: POLSC 507 or POLSC 735.

RATIONALE: This course is a critical element in a broader restructuring of our Master of Public Administration curriculum which is designed to more closely map skill sets required of public managers in the 21st century. One such increasingly critical skill involves strategic thinking and management practices which refer to a set of tools that improve how public managers identify, plan and accomplish public purposes sustainably. This course has previously been offered under a topics (791) course number.

IMPACT: None

EFFECTIVE DATE: Fall 2014

ADD: POLSC 738 – Public Finance. (3) I. Economics of the public sector, addressing the fundamental issue of the appropriate role of government activity in a market economy. Behavioral consequences of government policy. Model construction to explain real world government policymaking. Pr.: POLSC 737.

RATIONALE: This course is a critical element in a broader restructuring of our Master of Public Administration curriculum which is designed to more closely map the skill sets required of public managers in the 21st century. More specifically, we are developing an emphasis in public budgeting and finance which includes this course along with our current course (POLSC 737) which is a more general and introductory exposure to these skills/topics. Prospective employers have assured us that this emphasis will function to enhance greatly the attractiveness of our graduates.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Curriculum and Instruction

EDCI 729. Middle-Level Mathematics for Teachers. (3) I, S. This course reviews math concepts, problems and applications to help prepare teachers to pass the Middle School Mathematics Praxis Exam. The course helps teachers gain pedagogical content knowledge in relation to teaching mathematics.

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: This course will form one of the core courses in the new Area of Emphasis in Mathematics Education for the Masters degree in Curriculum and Instruction. Recent reports have identified middle-level mathematics as the fourth largest area of need in the state of Kansas (KSDE, 2010). School districts, especially those in rural areas, identify their strongest elementary teachers and place those teachers in positions to teach at the middle level under a waiver. These teachers, while typically extremely knowledgeable in areas of pedagogy, are often weaker in mathematical content knowledge.

EFFECTIVE DATE: Fall 2014

EDCI 823. History of Mathematics Education. (3) I. This course will examine the issues and forces behind the evolution of mathematics education reform from 1820-present. Historical readings, mathematics curricula, analysis of political and social change, and research in both psychology and mathematics education will be analyzed to establish a foundation for understanding current reform efforts.

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: This course will form one of the core courses in the new area of emphasis in mathematics education for the Masters degree in Curriculum and Instruction. Historically mathematics reform has been driven by multiple factors within the United States and abroad. Understanding these influential forces and their impact upon historical reform movements is essential for understanding contemporary reform movements. As the US enters another decade of dramatic reform in mathematics education, students will analyze motivations for the current reform and identify both social and political impacts upon the way public educators approach reform.

EFFECTIVE DATE: Fall 2014

EDCI 825. Research in Mathematics Teaching and Learning. (3) S. This course will focus on seminal and contemporary research in mathematics teaching and learning. Emphasis will be placed on (1) current trends in K-12 classrooms, (2) the relationship between curriculum and instruction to current mathematics education research, (3) critical analysis of research practices, (4) solving and analyzing problems, and (5) designing goals and outcomes for instructional strategies.

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: This course will form one of the core courses in the new area of emphasis in Mathematics Education for the Masters degree in Curriculum and Instruction. Graduate students being prepared in Mathematics Education need to have a solid background in seminal research informing current changes in education. They need to have experience reading and analyzing research, linking reports of research to classroom teaching and learning, and synthesizing

research so that they can inform colleagues, make sound decisions, and conduct research of their own.

EFFECTIVE DATE: Fall 2014

EDCI 826. Contemporary Technologies in Mathematics Education. (3) I. The purpose of this class is to explore the theoretical implications of using technology as a tool for teaching mathematics in K-12 classrooms. The course content will focus on the continual evolution of technology and how this evolution can assist in the teaching and learning of mathematics.

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: This course will form one of the core courses in the new area of emphasis in mathematics education for the Masters degree in Curriculum and Instruction. Technology has had a key impact on the teaching and learning of mathematics throughout history. Often schools provide teachers with technology-based professional development but this does not extend to the area of mathematics education. Exploration of the technology available for teaching and learning mathematics will enhance opportunities for K-12 teachers and students.

EFFECTIVE DATE: Fall 2014

EDCI 827. Theoretical Models of Mathematics Teaching and Learning. (3) II (even years). This course will focus on the theories of learning, which provide a foundation for the standards for mathematical practice. The course will specifically address historical and contemporary theories related to mathematics teaching and learning.

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: This course will form one of the core courses in the new area of emphasis in Mathematics Education for the Masters degree in Curriculum and Instruction. In order to understand mathematics education, graduate students need to have a foundation in theoretical models of mathematics teaching and learning. They need to have an opportunity to become knowledgeable about the principal theoretical models that have informed educators and education reforms.

EFFECTIVE DATE: Fall 2014

EDCI 828. Assessment in Mathematics Education. (3) S (even years). This course will provide participants with assessment tools necessary to enhance learning for diverse student populations. The course will explore ways to document student performance and progress for instructional and accountability purposes. Participants will become familiar with quantitative and qualitative concepts and practices used to evaluate student learning in the classroom.

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: This course will form one of the core courses in the new Area of Emphasis in Mathematics Education for the Masters degree in Curriculum and Instruction. For assessment to be meaningful it must be done thoughtfully and systematically. When done effectively, it can

help teachers assess the degree to which their students understand and what adjustments need to be made to instruction. How teachers use assessment techniques to refine their teaching and improve instruction is complex. This course focuses on assessment will enable teachers to continue to expand their knowledge of this growing field.

EFFECTIVE DATE: Fall 2014

Horticulture, Forestry, and Recreation Resources

ADD: PMC 710. Rural Tourism and Sustainable Development. (3) I. This course will explore the obstacles and opportunities of using ecotourism and agritourism to contribute to rural economic development. Examples of successful ecotourism projects both domestically and internationally will be presented with an emphasis on the role of National Parks as tourism destinations. Agritourism efforts in Kansas will be highlighted and compared to similar efforts in other states and countries. Principles of attracting and managing tourists and park visitors in a sustainable manner also will be covered.

RATIONALE: This content is lacking in our curriculum and adding this course helps us meets accreditation standards set forth by the National Recreation and Park Association. Also we currently offer no graduate level courses and this first course would begin to address that void.

IMPACT: No impacts outside the department.

EFFECTIVE DATE: Spring 2015

Non-Expedited Curriculum Changes

Food Science Program

General Graduate Records Examination (GRE) scores are required of all applicants.

FROM:

TO:

Are there any special requirements for international students?

International students must submit the following:

- TOEFL score of at least 577 (paper), 233 (computer), 90 (IBT), 7.0 (IELTS) or evidence of a degree from a U.S. university
- ~~GRE scores~~
~~NOTE: A minimum GRE score of 1000 between the verbal and quantitative is required. A GRE score of at least 425 on the verbal section must be achieved.~~
- Complete financial form and evidence of financial support for their entire graduate training
- Ensure sections 1, 2, and 3 are filled out completely on the affidavit. It must include the official bank seal and signature of the bank official. A certificate of deposit or a bank statement is not acceptable to fulfill this requirement.

Are there any special requirements for international students?

International students must submit the following:

- TOEFL score of at least 577 (paper), 90 (IBT), 7.0 (IELTS) or evidence of a degree from a U.S. university
- **Graduate Record Examination (GRE) General Test scores are required.**
- Complete financial form and evidence of financial support for their entire graduate training
- Ensure sections 1, 2, and 3 are filled out completely on the affidavit. It must include the official bank seal and signature of the bank official. A certificate of deposit or a bank statement is not acceptable to fulfill this requirement.

RATIONALE:

The GRE selective requirements for international applicants to the program was determined to be discriminatory and thus this was removed. The Food Science Graduate Program Coordinating Committee thought that it would be helpful to have GRE scores for all applicants. The GRE scores will provide some metrics on the quality of incoming students and may be helpful for students with low grades. No minimum scores will be required. This will not be a burden on applicants as almost all Food Science programs in the USA required that GRE scores be a part of the application process.

EFFECTIVE DATE: Fall 2014

Department of Hospitality Management and Dietetics

PhD Specialization: Hospitality and Dietetics Administration

<p>Doctoral Degree Requirements</p> <p>The Ph.D. requires a minimum of 90 semester credit hours beyond the bachelor's degree, including 30 credit hours of dissertation research. The number of hours from a previously completed master's degree which may be counted toward the 90 hour requirement is decided by the student's supervisory committee and is reviewed by the chair of the College of Human Ecology Coordinating Committee and the Graduate School. A maximum of 30 hours may be transferred from a completed master's degree. A maximum of 9 credit hours can be transferred from graduate work completed after the master's degree at another accredited university. Doctoral students are required to pass both written and oral preliminary examinations prior to admission to candidacy.</p> <p>Doctor of Philosophy Course Requirements</p> <p>Major Area (Minimum of 60 Credit Hours)</p> <p>Ph.D. (900-level) Courses (12 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 975 - Research and Applied Theories in Consumer Behavior in Foodservice and Hospitality Management Credits: (3) • OR • a 900-level or equivalent course • HMD 980 - Administration of Dietetics and Hospitality Programs Credits: (3) • HMD 985 - Advances in Foodservice and Hospitality Management Credits: (3) • HMD 995 - Grantsmanship and Publication Credits: (3) <p>Dissertation Proposal Seminar (1 Credit Hour)</p> <ul style="list-style-type: none"> • HMD 990 - Dissertation Proposal Seminar 	<p>Doctoral Degree Requirements</p> <p>The Ph.D. requires a minimum of 90 semester credit hours beyond the bachelor's degree, including 30 credit hours of dissertation research. The number of hours from a previously completed master's degree which may be counted toward the 90 hour requirement is decided by the student's supervisory committee and is reviewed by the chair of the College of Human Ecology Coordinating Committee and the Graduate School. A maximum of 30 hours may be transferred from a completed master's degree. A maximum of 9 credit hours can be transferred from graduate work completed after the master's degree at another accredited university. Doctoral students are required to pass both written and oral preliminary examinations prior to admission to candidacy.</p> <p>Doctor of Philosophy Course Requirements</p> <p>Major Area (Minimum of 60 Credit Hours)</p> <p>Ph.D. (900-level) Courses (12 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 975 - Research and Applied Theories in Consumer Behavior in Foodservice and Hospitality Management Credits: (3) • OR • a 900-level or equivalent course • HMD 980 - Administration of Dietetics and Hospitality Programs Credits: (3) • HMD 985 - Advances in Foodservice and Hospitality Management Credits: (3) • HMD 995 - Grantsmanship and Publication Credits: (3) <p>Dissertation Proposal Seminar (1 Credit Hour)</p> <ul style="list-style-type: none"> • HMD 990 - Dissertation Proposal Seminar
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<p style="text-align: center;">Credits: (1)</p> <p>Other Coursework in Major Area (17 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 805 - Food Production Management Credits: (3) • HMD 885 - Seminar in Foodservice and Hospitality Management Credits: (1) • HMD 890 - Administration of Foodservice and Hospitality Organizations Credits: (3) • HMD 895 - Financial Management and Cost Controls for the Hospitality Industry Credits: (3) • Other HMD Graduate Courses Credits: (7) <p>Dissertation Research (30 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 999 - Research in Foodservice or Hospitality Management Credits: (Var.) <p>Supporting Areas (22 Credit Hours)</p> <p>Research Skills (10 Credit Hours)</p> <ul style="list-style-type: none"> • STAT 703 - Introduction to Statistical Methods for the Sciences Credits: (3) • STAT 704 - Analysis of Variance Credits: (2) • AND • STAT 705 - Regression and Correlation Analyses Credits: (2) • OR • STAT 713 - Applied Linear Statistical Models Credits: (3) • • STAT 720 - Design of Experiments Credits: (3) • OR • EDCEP 917 - Experimental Design in Educational Research Credits: (3) <p>Course in Research Methods (3 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 810 - Research Techniques for Foodservice and Hospitality Management 	<p style="text-align: center;">Credits: (1)</p> <p>Other Coursework in Major Area (17 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 805 - Food Production Management Credits: (3) • HMD 885 - Seminar in Foodservice and Hospitality Management Credits: (1) • HMD 890 - Administration of Foodservice and Hospitality Organizations Credits: (3) • HMD 895 - Financial Management and Cost Controls for the Hospitality Industry Credits: (3) • Other HMD Graduate Courses Credits: (7) <p>Dissertation Research (30 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 999 - Research in Foodservice or Hospitality Management Credits: (Var.) <p>Supporting Areas (21 Credit Hours)</p> <p>Research Skills (9 Credit Hours)</p> <ul style="list-style-type: none"> • STAT 703 - Introduction to Statistical Methods for the Sciences Credits: (3) • • STAT 705 - Regression and Analysis of Variance Credits: (3) • OR • STAT 713 - Applied Linear Statistical Models Credits: (3) • • STAT 720 - Design of Experiments Credits: (3) • OR • EDCEP 917 - Experimental Design in Educational Research Credits: (3) <p>Course in Research Methods (3 Credit Hours)</p> <ul style="list-style-type: none"> • HMD 810 - Research Techniques for Foodservice and Hospitality Management
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<p>Credits: (3)</p> <p>Other Supporting Courses (9 Credit Hours)</p> <ul style="list-style-type: none"> • ACCTG 810 – Foundations of Accounting and Finance Credits: (3) • EDCI 943 - Principles of College Teaching Credits: (3) • Graduate Course Elective (formal course, not independent study) Credits: (3) <p>Notes</p> <p>Research, seminar, or other independent study hours will not be transferred from a master’s degree into the Ph.D. program of study. No courses with a grade below a B will be accepted from a master’s degree into the Ph.D. program of study.</p>	<p>Credits: (3)</p> <p>Other Supporting Courses (9 Credit Hours)</p> <ul style="list-style-type: none"> • EDCI 943 - Principles of College Teaching Credits: (3) • Graduate Course Electives (formal course, not independent study) Credits: (6) <p>Notes</p> <p>Research, seminar, or other independent study hours will not be transferred from a master’s degree into the Ph.D. program of study. No courses with a grade below a B will be accepted from a master’s degree into the Ph.D. program of study.</p>
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Rationale: The graduate faculty has decided that ACCTG 810, Foundations of Accounting and Finance, should not be required for every student in the specialization. This course will become an elective course, and students will work with their major professor and committee to determine if the course is needed in their plan of study.

Impact: Department of Accounting. The accounting department has responded with approval of this change.

Effective: Fall 2014

CHANGES FROM ORIGINAL PROPOSAL:

The curriculum change for the Phd Specialization: Hospitality and Dietetics Administration was updated to reflect Statistics course changes by the Department of Statistics. STAT 704 which has been dropped and STAT 705 course title changed and credits increased to 3. As approved by Faculty Senate, February 11, 2014.

Political Science

Master of Public Administration

http://catalog.k-state.edu/preview_program.php?catoid=2&pooid=443&returnto=159

FROM:

Offered through the Political Science graduate program, the Master of Public Administration degree is a professional degree for those who wish to hold administrative positions primarily in the public sector. This degree prepares individuals for administrative careers in a wide range of environments—international, national, sub-national, not-for-profit—by offering a program of study which is comprehensive, flexible, and interdisciplinary.

The program is committed to meeting the needs of both pre-service and in-service students. Pre-service students without administrative experience have enjoyed success in obtaining both valuable internships while pursuing their degree and challenging positions upon graduation. In-service students have found this program especially attractive since, through careful scheduling, courses required for the degree may be completed in the evenings.

Degree requirements (42 credit hours)

The degree requires 42 hours of graduate credit including core public administration courses, an area of specialization, electives, and, for pre-service students, an internship. Full-time students are normally able to complete the degree in two years. The core courses are designed to familiarize all students with the fundamentals of public administration. The six courses in this category are Research Methods, Public Personnel Administration, Policy Analysis and Evaluation, Public Organization Theory, Public Budgeting, and Capstone Seminar in Public Administration.

Each student is also required to develop an interdisciplinary area of specialization, such as budgeting and finance, personnel administration, planning, international and comparative administration, not-for-profit management, or state and local government. However, other areas of interest specific to individual students are met on a case-by-case basis under special circumstances with the advice of the director of the program.

Students also take two political science electives, one of which must be a seminar. This component of the curriculum helps students to gain a better

TO:

The Master of Public Administration (MPA) degree at Kansas State University prepares both mid and pre-career students to serve the public interest and establish themselves as civic leaders. The program emphasizes a theoretically informed and research driven skills based approach to learning designed to insure that our students develop specific competencies which prepare them for the challenges of work in the public and nonprofit sectors immediately upon graduation. Students are given a broad exposure to policy systems, political environments, administrative principals and research methods. Additionally, our students are required to think critically, apply knowledge and seek practical solutions to real world problems.

Degree requirements (pre-service students 40 credit hours, in-service students 39 credit hours)

For pre-career students lacking significant administrative experience the degree requires 40 hours of graduate credit including a one credit hour internship involving at least 400 hours of employment in an appropriate public or nonprofit setting. The one credit hour internship is not required of mid-career students with administrative experience. Full-time students are normally able to complete the degree in nine semesters – two and one-half years.

The curriculum of study for the Master of Public Administration program includes several elements. First, all students are required to take a group of core courses which will provide exposure to subject matter which all administrators must master. The courses in this category include: Public Administration and Society; Research Methods; Policy Analysis and Evaluation; Public Personnel Administration; Public Organization Theory; Public Budgeting; Public Finance; and, Public Administration Capstone. Second, students choose from a number of elective offerings designed for exposure to other matters of concern to practicing administrators such as administrative ethics, executive leadership challenges, strategic management of public organizations, administrative law, and nonprofit financial management. Third, students develop an area of administrative specialization such as public budgeting and finance, planning, security studies,

<p>appreciation of the political environment in which public administrators operate. Students may choose from an extensive range of graduate courses and advanced seminars regularly offered by the Department of Political Science.</p> <p>Pre-service students are required to complete an internship, involving a minimum of ten weeks of fulltime employment in an administrative capacity. This may involve appointments with public or not-for-profit sector employers.</p>	<p><u>and, state and local government. Finally, pre-career students are required to complete an internship involving a minimum of ten weeks of fulltime employment in an administrative capacity with either a public or not-for-profit sector employer.</u></p>
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RATIONALE: The Political Science faculty and the MPA faculty, with input from the MPA program's various stakeholders, have formulated a series of changes in the requirements associated the MPA degree program. These changes are designed to serve our students better by providing a greater range of those professional skills required of successful public managers in the 21st century.

IMPACT: None

EFFECTIVE DATE: Fall 2014

Department of Kinesiology

Change From:	Change To:
<p>Kinesiology (M.S.)</p> <hr/> <p>Admission Students entering the Kinesiology graduate program must satisfy a minimum number of undergraduate competencies. These competencies are often satisfied with an undergraduate degree in kinesiology. Students without an undergraduate degree in kinesiology may be required to complete additional undergraduate coursework. Application procedures require (1) a completed graduate application form, (2) transcripts from all universities and colleges attended, (3) scores on the aptitude portion of GRE examination, (4) three letters of reference, and (5) a statement outlining professional goals and areas of special interest. Application for admission to the program in the fall semester should be made in the preceding late fall or early winter. Applications are also accepted for the spring semester.</p> <p>Master's degree program The Department of Kinesiology offers a master of science degree. Students may emphasize exercise physiology/pathophysiology, or public health physical activity. The M.S. degree in kinesiology requires a minimum of 30 hours for students completing a master's thesis option and 36 hours for students completing a course work option. The specific program of study, designed by the student and supervisory committee, is tailored to meet the individual needs and interests of the student. A maximum of 12 hours of supporting work in other departments may be applied toward the degree. All students are expected to demonstrate a depth and breadth of understanding of kinesiology in a written and/or oral final evaluation.</p> <p>Thesis Option Requirements</p> <p>Research Core</p> <ul style="list-style-type: none"> • KIN 815 - Research Methods in Kinesiology Credits: (3) • STAT 703 - Introduction to Statistical Methods for the Sciences Credits: (3) <p>Kinesiology Core</p> <ul style="list-style-type: none"> • KIN 800 - Advanced Physiology of Exercise Credits: (3) 	<p>Kinesiology (M.S.)</p> <hr/> <p>Admission Students entering the Kinesiology graduate program must satisfy a minimum number of undergraduate competencies. These competencies are often satisfied with an undergraduate degree in kinesiology. Students without an undergraduate degree in kinesiology may be required to complete additional undergraduate coursework. Application procedures require (1) a completed graduate application form, (2) transcripts from all universities and colleges attended, (3) scores on the aptitude portion of GRE examination, (4) three letters of reference, and (5) a statement outlining professional goals and areas of special interest. Application for admission to the program in the fall semester should be made in the preceding late fall or early winter. Applications are also accepted for the spring semester.</p> <p>Master's degree program The Department of Kinesiology offers a master of science degree. Students may emphasize exercise physiology/pathophysiology, or public health physical activity. The M.S. degree in kinesiology requires a minimum of 30 hours for students completing a master's thesis option and 36 hours for students completing a course work option. The specific program of study, designed by the student and supervisory committee, is tailored to meet the individual needs and interests of the student. A maximum of 12 hours of supporting work in other departments may be applied toward the degree. All students are expected to demonstrate a depth and breadth of understanding of kinesiology in a written and/or oral final evaluation.</p> <p>Thesis Option Requirements</p> <p>Research Core</p> <ul style="list-style-type: none"> • KIN 815 - Research Methods in Kinesiology Credits: (3) • STAT 703 - Introduction to Statistical Methods for the Sciences Credits: (3) • <u>STAT 705 – Regression and Analysis of Variance Credits: (3)</u> <p>Kinesiology Core</p> <ul style="list-style-type: none"> • <u>KIN 801 – Physical Activity: Physiology to</u>

<ul style="list-style-type: none"> • KIN 830 – Advanced Public Health Physical Activity Credits: (3) <p>Support Work Complete a total of 12 hours from Kinesiology courses 600 and above; and approved courses outside the department</p> <p>Thesis 6 hours required</p> <p>Coursework Option Research Core</p> <ul style="list-style-type: none"> • KIN 815 - Research Methods in Kinesiology Credits: (3) • STAT 703 - Introduction to Statistical Methods for the Sciences Credits: (3) <p>Kinesiology Core</p> <ul style="list-style-type: none"> • KIN 800 – Advanced Physiology of Exercise Credits: (3) • KIN 830 – Advanced Public Health Physical Activity Credits: (3) <p>Support Work Complete a total of 24 hours from Kinesiology courses 600 and above; and approved courses outside the department.</p>	<p>Public Health Impact Credits: (3)</p> <p>Support Work Complete a total of 12 hours from Kinesiology courses 600 and above; and approved courses outside the department</p> <p>Thesis 6 hours required</p> <p>Coursework Option Research Core</p> <ul style="list-style-type: none"> • KIN 815 - Research Methods in Kinesiology Credits: (3) • STAT 703 - Introduction to Statistical Methods for the Sciences Credits: (3) <p>Kinesiology Core</p> <ul style="list-style-type: none"> • KIN 801 – Physical Activity: Physiology to Public Health Impact Credits: (3) <p>Support Work Complete a total of 27 hours from Kinesiology courses 600 and above; and approved courses outside the department.</p>
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Rationale: There are two proposed changes in the curriculum of the MS program in Kinesiology. 1) Consolidation of two previously required courses in the Kinesiology Core, KIN 800 Advanced Exercise Physiology and KIN 830 Advanced Public Health Physical Activity, into one required and already approved course, KIN 801 Physical Activity: Physiology to Public Health Impact. 2) Strengthening the statistical experience for students participating in the thesis option from a single course STATS 703 to an additional course STAT 705, and elimination of STATS 702 since the Statistics Dept. no longer offers that course. Students in the coursework plus examination option would still be required to take STATS 703. STAT 705, which will be a 3 credit class, awaits final approval by Faculty Senate. (Faculty Senate approved the STAT 705 course change as of February 11, 2014).

Impact : Slight increase in annual enrollment for STAT 705. These changes are acceptable to the Statistics Department.

Effective Term: Fall 2014

School of Family Studies and Human Services

M.S. Personal Financial Planning Specialization

CHANGE FROM	CHANGE TO
<p>Personal Financial Planning – (M.S.)</p> <p>The Family Studies and Human Services department offers a Master of Science degree in Family Studies and Human Services with a specialization in personal financial planning. The inter-institutional master’s degree program in personal financial planning and the graduate certificate program in personal financial planning draw on the expertise of graduate faculty and graduate courses from seven universities, members of the Great Plains IDEA, a consortium of major Midwestern universities. The Internet-based personal financial planning curriculum lets you do course work at convenient times for you. Upon completion of the master’s degree curriculum, students are eligible to sit for the Certified Financial Planner certification examination.</p> <p>These courses in personal financial planning and counseling enable you to:</p> <ul style="list-style-type: none"> • Enhance your personal financial knowledge • Complete a master’s degree from any of the participating universities • Develop competencies that may lead to professional certification by CFP Board <p>This program consists of 42 semester credit hours. Students typically complete the program in three years while employed full time. Students who participate in full-time study can shorten the time to degree completion.</p> <p>K-State Degree Program</p> <p>All students applying to the master’s in personal financial planning program at K-State will complete the first six courses leading to completion of the K-State Personal Financial Planning Graduate Certificate. All courses are required for the master’s degree, and upon completion of the certificate portion of the program, students are eligible to sit for the CFP Certification</p>	<p>Personal Financial Planning – (M.S.)</p> <p>The School of Family Studies and Human Services offers a Master of Science degree in Family Studies and Human Services with a specialization in Personal Financial Planning. The inter-institutional master’s degree program in personal financial planning and the graduate certificate program in personal financial planning draw on the expertise of graduate faculty and graduate courses from seven universities, members of the Great Plains IDEA, a consortium of major Midwestern universities. The Internet-based personal financial planning curriculum lets you do course work at convenient times for you. Upon completion of the master’s degree curriculum, students are eligible to take the Certified Financial Planner certification examination.</p> <p>These courses in personal financial planning and counseling enable you to:</p> <ul style="list-style-type: none"> • Enhance your personal financial knowledge • Complete a master’s degree from any of the participating universities • Develop competencies that may lead to professional certification by CFP Board <p>This program consists of 36 semester credit hours. Students typically complete the program in three years while employed full time. Students who participate in full-time study can shorten the time to degree completion.</p> <p>K-State Degree Program</p> <p>All students applying to the master’s in personal financial planning program at K-State will complete the first six courses leading to completion of the K-State Personal Financial Planning Graduate Certificate. All courses are required for the master’s degree, and upon completion of the certificate portion of the program, students are eligible to take the CFP Certification Examination. Students automatically flow into the Great</p>

Examination. Students automatically flow into the Great Plains IDEA upon successful completion of the graduate certificate in personal financial planning.

For additional information, please visit the Personal Financial Planning website at: <http://www.ipfp.k-state.edu/>.

FSHS 624 - Fundamentals of Financial Planning **Credits:** (3)

FSHS 766 - Insurance Planning **Credits:** (3)

FSHS 762 - Investment Planning **Credits:** (3)

FSHS 760 - Family, Employment Benefits and Retirement Planning **Credits:** (3)

FSHS 772 - Personal Income Taxation **Credits:** (3)

FSHS 764 - Estate Planning **Credits:** (3)

FSHS 836 - Case Studies **Credits:** (3)

~~FSHS 850 - Family System **Credits:** (3)~~

FSHS 675 - Field Study in Family Economics **Credits:** (3), **must be taken twice**

FSHS 756 - Financial Counseling **Credits:** (3)

FSHS 835 - Professional Practice in Financial Planning **Credits:** (3)

~~FSHS 709 - Family Economics **Credits:** (3)~~

~~FSHS 758 - Housing/ Real Estate in FFP **Credits:** (3)~~

Plains IDEA upon successful completion of the graduate certificate in personal financial planning.

After completing 27 credits (9 courses) of required course work (Fundamentals, Insurance, Investments, Personal Income Taxation, Retirement Planning, Estate Planning, Case Studies, Financial Counseling, and Financial Theory and Research I) the remaining 9 credits (3 courses) provide preparation for defending an M.S. case study report (Option A) or an M.S. research thesis (Option B).

For additional information, please visit the Personal Financial Planning website at: <http://www.ipfp.k-state.edu/>.

Required Coursework (27 credits):

FSHS 624 - Fundamentals of Financial Planning **Credits:** (3)

FSHS 766 - Insurance Planning **for Families Credits:** (3)

FSHS 762 - **Investing for the Family's Future Credits:** (3)

FSHS 760 - Families, Employment Benefits & Retirement Planning **Credits:** (3)

FSHS 772 - Personal Income Taxation **Credits:** (3)

FSHS 764 - Estate Planning **for Families Credits:** (3)

FSHS 836 - **Financial Planning Case Studies Credits:** (3)

FSHS 756 - Financial Counseling **Credits:** (3)

FSHS 702 - Financial Theory and Research I Credits: (3)

Electives Coursework (9 credits):

(Option A)

FSHS 675 - Field Study in Family Economics **Credits:** (3)

FSHS 835 - Professional Practices in **Family** Financial Planning **Credits:** (3)

FSHS 704 - Seminar in Family Studies and Human Services Credits: (3)

(Option B)

FSHS 899 - MS Research in Family Studies and Human Services (var.) (6 hrs. required)

Choose one from:

FSHS 802 - Financial Theory and Research II Credits: (3)

Or

FSHS 806 - Statistical Methods in Family Studies and Human Services I Credits: (3)

	<u>Or</u> STAT 703 – Introduction to Statistical Methods for the Sciences Credits: (3).
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Rationale: The M.S. in FSHS with specialization in Personal Financial Planning of the Great Plains Interactive Distance Education Alliance consortium (GPIDEA) prepares students to take the exam for Certified Financial Planner certificant status. The GPIDEA consortium has decided that, to remain competitive in an expanding market of online CFP course preparation programs, will require reducing the number of credits from 42 to 36. Additionally, to take advantage of GPIDEA faculty strengths, the proposed revision adds a thesis option that focuses on financial theory and research.

Impact: None

Effective: Fall 2014

Non-Expedited New Curriculum - College of Education

Area of specialization in Mathematics Education for the Masters degree in Curriculum and Instruction

FROM

No area of specialization is currently offered.

TO:

G9-Mathematics Education

This area of specialization is designed for teachers who wish to further their understandings of mathematics curriculum, content, and pedagogy. Courses are designed to provide a contemporary perspective on teaching mathematics in K-12 schools.

Select 15 hours from the following courses:

- EDCI 729 Middle Level Mathematics for Teachers (3)
- EDCI 821 Advanced Methods in the Teaching of K-12 Mathematics (3)
- EDCI 823 History of Mathematics Education (3)
- EDCI 825 Research in Mathematics Teaching and Learning (3)
- EDCI 826 Contemporary Technologies in Mathematics Education (3)
- EDCI 827 Theoretical Models in Mathematics Teaching and Learning (3)
- EDCI 828 Assessment in Mathematics Education (3)
- EDCI 886 Seminar in Mathematics Education (3)

Or other courses approved by the advisor. These hours may include up to six hours from the KSU Math Department (e.g., MATH 591, MATH 791)

IMPACT: The Math Department was contacted and they support our efforts.

RATIONALE: The Department of Curriculum & Instruction currently provides students the opportunity to seek a Master’s degree with a specialization in eight areas. However, mathematics education is not currently included as a specialization. This is a proposal to add an area of specialization in mathematics education.

Given the increasing emphasis on mathematics as a core curriculum area, the mathematics education faculty in the COE are seeking support to develop a new area of emphasis in Mathematics Education for the Masters degree in Curriculum and Instruction. The area of emphasis will focus on six new core mathematics education courses which will provide a foundation for deepening student understanding of mathematics education.

While the current pool of certified mathematics teachers is sufficient to meet the demands placed upon the profession due to retirement, many early career teachers are leaving the field. This places greater demand on the teacher supply. In a recent study Ingersol (2012) suggested data showed that one of the reasons why teachers were leaving the field following their first year was

directly correlated to mathematics education preparation. Current licensure requirements vary from state to state but are generally tied to a passing score on a content test. Therefore, a teacher with a degree in mathematics can simply successfully pass a mathematics content test to receive licensure. While these teachers typically have strong mathematical backgrounds, they have little to no experience in the pedagogy of mathematics.

Reports have identified middle-level mathematics as the fourth largest area of need in the state of Kansas (KSDE, 2010). School districts, especially those in rural areas, identify their strongest elementary teachers and place those teachers in positions to teach at the middle-level under a waiver. These teachers, while typically extremely knowledgeable in areas of pedagogy, are often weaker in mathematical content knowledge.

This proposal creates an online sequence of courses addressing foundational concepts in mathematics education which not only constitute a specialization as a part of the Master's program in the College of Education, but also meet the needs of teachers and districts in the state of Kansas who seek to target deficiencies in the area of mathematics teaching and learning.

EFFECTIVE DATE: Fall 2014