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COLLEGE OF ARTS & SCIENCES (Approved 11-3-11)

Political Science

FROM: ~~POLSC 325~~ – U.S. Politics. (3) I, II, S. The national government with emphasis on constitutional principles, basic structure, functions, and the political process. K-State 8: Historical Perspectives; Social Sciences.

TO: POLSC 115 - U.S. Politics. (3) I, II, S. The national government with emphasis on constitutional principles, basic structure, functions, and the political process. K-State 8: Historical Perspectives; Social Sciences.

RATIONALE: After much consideration, the department as a whole has concluded that the four core introductory level courses for our major, including POLSC 325, must be renumbered. Their content is more consistent with 100 level courses rather than 300 level courses. Each of these courses is a true introductory level course pitched at the freshman level. Additionally, this numbering change brings our required lower level curriculum more in line with other majors within Arts and Sciences.

IMPACT: There are no direct impacts on other colleges/units.

EFFECTIVE DATE: Fall 2012

FROM: ~~POLSC 344~~– Introduction to Comparative Politics. (3) I, II. Comparative analysis of politics in both “developed” and “developing” countries. Though some attention will be given to abstract and theoretical concepts, the emphasis will be on the actual political process in the countries selected for study. K-State 8: Ethical Reasoning and Responsibility; Global Issues and Perspectives.

TO: POLSC 135 - Introduction to Comparative Politics. (3) I, II. Comparative analysis of politics in both “developed” and “developing” countries. Though some attention will be given to abstract and theoretical concepts, the emphasis will be on the actual political process in the countries selected for study. K-State 8: Ethical Reasoning and Responsibility; Global Issues and Perspectives.

RATIONALE: After much consideration, the department as a whole has concluded that the four core introductory level courses for our major, including POLSC 344, must be renumbered. Their content is more consistent with 100 level courses rather than 300 level courses. Each of these courses is a true introductory level course pitched at the freshman level. Additionally, this numbering change brings our required lower level curriculum more in line with other majors within Arts and Sciences.

IMPACT: There are no direct impacts on other colleges/units.

EFFECTIVE DATE: Fall 2012

COLLEGE OF AGRICULTURE (11-17-11)

Agricultural Economics

ADD: AGEC 115. Decision Tools for Agricultural Economics and Agribusiness. (2) I, II. Development of foundational computer-based empirical skills that address economic and business issues in food and agriculture. Students will learn how to model information on an issue or problem using mathematical spreadsheets to find relevant answers for decision makers and stakeholders. Two hours recitation per week. K-State 8: Empirical and Quantitative Reasoning.

RATIONALE: Computer skills of incoming freshmen are at a level where orientation classes such as AGEC105 (Agricultural Economics and Agribusiness Orientation) teach students how to use K-State Online. Similar to AGEC 120 (Agricultural Economics and Agribusiness), it is important to establish a coherent foundation for applying quantitative skills to Agricultural Economics and Agribusiness problems in upper classes. As witnessed by many of our instructors, AGEC 490 (Computer Applications in Agricultural Economics and Agribusiness) has served well to prepare many students for our 500-level classes, but this course will be offered at the very beginning of the curriculum so that students can build on their skills throughout the entire curriculum. We envision this class to emphasize building skills to translate real world problems into spreadsheets and interpret the results as solutions to the problems.

IMPACT: None.

EFFECTIVE DATE: Fall 2012

DROP: AGEC 490. Computer Applications in Agricultural Economics and Agribusiness. (2) I, II. Applications of microcomputers to problems in agricultural economics and agribusiness. Emphasis on budgeting, cash flow, record keeping, financial analysis, statistical analysis, linear programming, and data analysis. Two hours recitation per week. Pr.: AGEC 120 or AGEC 121 or ECON 120; and MATH 100. K-State 8: Empirical and Quantitative Reasoning.

RATIONALE: The curriculum is being revised for students to build foundation in quantitative reasoning and computer skills at the very beginning of the curriculum, so that students can build on their skills throughout the entire curriculum.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2013

FROM: AGEC 500. Production Economics. (3) I, II. Application of economic principles to problems of agricultural production. Analysis of consumer demand for agricultural products and input and output decisions of the agricultural firm. AGEC 505 is a continuation of this course and they are intended to be taken in consecutive semesters. Three hours of recitation a week. Pr: AGEC 120 or AGEC 121 or ECON 120 and MATH 205. K-State 8: Empirical and Quantitative Reasoning, Social Sciences.

TO: AGEC 500. Production Economics. (3) I, II. Application of economic principles to problems of agricultural production. Analysis of consumer demand for agricultural

products and input and output decisions of the agricultural firm. AGECE 505 is a continuation of this course and they are intended to be taken in consecutive semesters. Three hours of recitation a week. Pr: AGECE 120 or AGECE 121 or ECON 120 and MATH 205. Rec Pr: AGECE 115. K-State 8: Empirical and Quantitative Reasoning, Social Sciences.

RATIONALE: In order to have solid foundation in quantitative reasoning and analytical skills, students are recommended to take AGECE115 (Ag Econ Decision Tools) prior to this class. This will enable instruction to focus on application of skills.

IMPACT: None.

EFFECTIVE DATE: Fall 2012

ADD: AGECE 501. Data Analysis and Optimization. (3) I, II. Analysis of agricultural business and economic data and optimization for decision making. Study applications of regression, time series analysis and forecasting to agricultural and economic data. Introduction to mathematical programming to model optimization of problems commonly encountered in agricultural economics. Three hours recitation per week. Pr.: AGECE 115 or AGECE 490, AGECE 120 or AGECE 121 or ECON 120, MATH 205, STAT 350. K-State 8: Empirical and Quantitative Reasoning.

RATIONALE: This course is an integral part of the proposed change in our curriculum to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. This capstone course is intended to be taken at the beginning of junior year, where students can enhance their quantitative and analytical skills to proficiency in business and economic settings.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Spring 2013

FROM: AGECE 505. Agricultural Market Structures. (3) I, II. Theory and application of economic principles to marketing problems in agriculture. Pricing of agricultural output and productive services under various forms of economic organization and competition; regional specialization, location, and trade; determinants of economic change; evaluation of economic and consumer welfare. Two hours lecture and two hours lab a week. Pr: AGECE 500. K-State 8: Empirical and Quantitative Reasoning, Social Sciences

TO: AGECE 505. Agricultural Market Structures. (3) I, II. Theory and application of economic principles to marketing problems in agriculture. Pricing of agricultural output and productive services under various forms of economic organization and competition; regional specialization, location, and trade; determinants of economic change; evaluation of economic and consumer welfare. Two hours lecture and two hours lab a week. Pr: AGECE 120 or AGECE 121 or ECON 120 and MATH 205 and AGECE 500. Rec Pr: AGECE 115. K-State 8: Empirical and Quantitative Reasoning, Social Sciences.

RATIONALE: This course follows AGECE 500 (Production Economics). To enable instructors for this course to monitor whether students have met prerequisites, all prerequisites for AGECE 500 are explicitly listed.

IMPACT: None.

EFFECTIVE DATE: Fall 2012

FROM: AGECE 513. Agriculture Finance. (3) I, II. Analysis of capital investments, interpretation of financial statements, capital structure considerations for agricultural firms, and farm real estate pricing. Three hours of recitation a week. Pr: AGECE 308 or AGECE 318 and ACCTG 231. K-State 8: Empirical and Quantitative Reasoning

TO: AGECE 513. Agriculture Finance. (3) I, II. Analysis of capital investments, interpretation of financial statements, capital structure considerations for agricultural firms, and farm real estate pricing. Three hours of recitation a week. Pre-Requisite: AGECE 308 or AGECE 318 and ACCTG 231. Rec Pr: AGECE 115. K-State 8: Empirical and Quantitative Reasoning

RATIONALE: In order to have solid foundation in quantitative reasoning and analytical skills, students will be recommended to take AGECE115 (Ag Econ Decision Tools) prior to this class. This will enable instruction to focus on application of skills.

IMPACT: None.

EFFECTIVE DATE: Fall 2012

Animal Sciences & Industry

FROM: ASI 533. Anatomy and Physiology. (4) I, II. General anatomy and physiology of the domestic animals. ~~Three hours recitation and three hours lab a week.~~ K-State 8: Natural and Physical Sciences.

TO: ASI 533. Anatomy and Physiology. (4) I, II. General anatomy and physiology of the domestic animals. Three hours lecture a week and two hours lab a week. K-State 8: Natural and Physical Sciences.

RATIONALE: The catalog states under “note” that this course is “three hours of recitation and three hours of lab a week.” It should actually read “three hours of lecture a week and two hours of lab a week.” This modification better represents how the course is actually taught. It has no impact on other colleges and creates no change in credit hours.

IMPACT: No impact.

EFFECTIVE DATE: Fall 2012

Food Science & Industry

ADD: FDSCI 101. Food Science & Industry Orientation. (1) I. Introduction to the food science & industry programs, activities, resources, faculty and career opportunities. Required of all freshmen in food science & industry.

RATIONALE: This course will introduce students in the food science program to university resources, activities, faculty, and career opportunities. It will be a replacement for GENAG 101 for food science majors in their curriculum, there will be no net increase in credit hours required.

IMPACT: No impact.

EFFECTIVE DATE: Fall 2012

Agricultural Economics

B.S. in Agribusiness: Agribusiness Option

FROM:

TO:

Agricultural Economics (24 credit hours)	Agricultural Economics (<u>27</u> credit hours)
AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)	AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)
	<u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u>
AGEC 120 - Agricultural Economics and Agribusiness (3)	AGEC 120 - Agricultural Economics and Agribusiness (3)
	or
	<u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u>
AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)	AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)
AGEC 318 - Food and Agribusiness Management (3)	AGEC 318 - Food and Agribusiness Management (3)
AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)	AGEC 500 - Production Economics (3)
AGEC 500 - Production Economics (3)	<u>AGEC 501 - Data Analysis and Optimization (3)</u>
AGEC 505 - Agricultural Market Structures (3)	AGEC 505 - Agricultural Market Structures (3)
AGEC 515 - Food and Agribusiness Marketing (3)	AGEC 515 - Food and Agribusiness Marketing (3)
	or
	<u>AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</u>
AGEC 599 - Food and Agribusiness Management Strategies (3)	AGEC 599 - Food and Agribusiness Management Strategies (3)
Agricultural Economics Electives (15 credit hours)	Agricultural Economics Electives (15 credit hours)
	<u>Include at least one numbered 598 or above</u>
AGEC 410 - Agricultural Policy (3)	AGEC 410 - Agricultural Policy (3)
AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]	AGEC 420 - Commodity Futures (3)
AGEC 420 - Commodity Futures (3)	AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)
AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)	AGEC 513 - Agricultural Finance (3)
AGEC 513 - Agricultural Finance (3)	<u>AGEC 515 - Food and Agribusiness Marketing Credits: (3)</u>
AGEC 516 - Agricultural Law and Economics (3)	AGEC 516 - Agricultural Law and Economics (3)
AGEC 520 - Market Fundamentals and Futures/Options Trading (3)	AGEC 520 - Market Fundamentals and Futures/Options Trading (3)
AGEC 525 - Natural Resource and Environmental	AGEC 525 - Natural Resource and Environmental

Economics (3)	Economics (3)
AGEC 570 - Food Manufacturing, Distribution and Retailing (3)	AGEC 570 - Food Manufacturing, Distribution and Retailing (3)
AGEC 598 - Farm Management Strategies (3)	AGEC 598 - Farm Management Strategies: (3)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)	AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)
AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]	AGEC 615 - Global Agricultural Development (3)
AGEC 623 - International Agricultural Trade (3)	AGEC 623 - International Agricultural Trade (3)
AGEC 632 - Agribusiness Logistics (3)	AGEC 632 - Agribusiness Logistics (3)
AGEC 680 - Risk Management (3)	AGEC 680 - Risk Management (3)
AGEC 710 - Comparative Food and Agriculture Systems (3)	AGEC 710 - Comparative Food and Agriculture Systems (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 631 - Principles of Transportation (3)	ECON 631 - Principles of Transportation (3)
GENAG 515 - Honors/Scholars Project (2)	GENAG 515 - Honors/Scholars Project (2)
Agricultural and Food Science Technology Restricted Electives (6 credit hours)	Agricultural and Food Science Technology Restricted Electives (6 credit hours)
AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)	AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)
AGRON 305 - Soils (4)	AGRON 305 - Soils (4)
AGRON 330 - Weed Science (3)	AGRON 330 - Weed Science (3)
ASI 102 - Principles of Animal Science (3)	ASI 102 - Principles of Animal Science (3)
ASI 105 - Animal Sciences and Industry (1)	ASI 105 - Animal Sciences and Industry (1)
ASI 106 - Dairy and Poultry Science (1)	ASI 106 - Dairy and Poultry Science (1)
ASI 318 - Fundamentals of Nutrition (3)	ASI 318 - Fundamentals of Nutrition (3)
ASI 320 - Principles of Feeding (3)	ASI 320 - Principles of Feeding (3)
ATM 160 - Engineered Systems and Technology in Agriculture (3)	ATM 160 - Engineered Systems and Technology in Agriculture (3)
FDSCI 302 - Introduction to Food Science (3)	FDSCI 302 - Introduction to Food Science (3)
FDSCI 305 - Fundamentals of Food Processing (3)	FDSCI 305 - Fundamentals of Food Processing (3)
GRSC 101 - Introduction to Grain Science and Industry (3)	GRSC 101 - Introduction to Grain Science and Industry (3)

See department list for other courses.	See department list for other courses.
Agricultural and Food Science Technology or Business (>300 level) Electives (6 credit hours)	Agricultural and Food Science Technology or Business (>300 level) Electives (6 credit hours)
Select from any non-AGEC courses in agriculture not used in Ag and Food Science Technology restricted electives, HN 132, HN 301, or any College of Business class (>300 level).	Select from any non-AGEC courses in agriculture not used in Ag and Food Science Technology restricted electives, HN 132, HN 301, or any College of Business class (>300 level).
Communication (14 credit hours)	Communication (14 credit hours)
ENGL 100 - Expository Writing I (3)	ENGL 100 - Expository Writing I (3)
ENGL 200 - Expository Writing II (3)	ENGL 200 - Expository Writing II (3)
COMM 105 - Public Speaking IA (2)	COMM 105 - Public Speaking IA (2)
Communication Elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language	Communication Elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language
AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)	AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)
Economics/Business (21 credit hours)	Economics/Business (21 credit hours)
ECON 110 - Principles of Macroeconomics (3)	ECON 110 - Principles of Macroeconomics (3)
ECON 510 - Intermediate Macroeconomics (3)	ECON 510 - Intermediate Macroeconomics (3)
ACCTG 231 - Accounting for Business Operations (3)	ACCTG 231 - Accounting for Business Operations (3)
ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG 241 - Accounting for Investing and Financing (3)
MANGT 420 - Management Concepts (3)	MANGT 420 - Management Concepts (3)
ACCTG, FINAN, MANGT, OR MKTG Elective (300-level or above) (3)	ACCTG, FINAN, MANGT, OR MKTG Elective (300-level or above) (3)
ACCTG, FINAN, MANGT, OR MKTG (500-level or above) (3)	ACCTG, FINAN, MANGT, OR MKTG (500-level or above) (3)
Finance Overlay	Finance Overlay
AGEC 513 - Agricultural Finance (3) or FINAN 450 - Principles of Finance (3)	AGEC 513 - Agricultural Finance (3) or FINAN 450 - Principles of Finance (3)
Mathematics/Statistics (6-12 credit hours)	Mathematics/Statistics (<u>6-9</u> credit hours)
MATH 100 - College Algebra (3)	MATH 100 - College Algebra (3)
MATH 205 - General Calculus and Linear Algebra (3)	MATH 205 - General Calculus and Linear Algebra (3)
STAT 325 - Introduction to Statistics (3)	

<p>or STAT 350 - Business and Economic Statistics I (3) and STAT 351 - Business and Economic Statistics II (3)</p> <p>Natural Sciences (8 credit hours)</p> <p>Select a combination of 2 courses for a total of 8 credit hours.</p> <p>CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)</p> <p>BIOL 198 - Principles of Biology (4)</p> <p>PHYS 113 - General Physics I (4)</p> <p>Social Sciences/Humanities (9 credit hours)</p> <p>PSYCH 110 - General Psychology (3)</p> <p>or SOCIO 211 - Introduction to Sociology (3)</p> <p>Social Science Electives (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies or FSHS 350 - Family Relationships and Gender Roles (3)</p> <p>Humanities Electives (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)</p> <p>Unrestricted electives as needed to meet 127 credit hours</p> <p>Total credit hours required for graduation (127)</p>	<p>STAT 350 - Business and Economic Statistics I (3)</p> <p>Natural Sciences (8 credit hours)</p> <p>Select a combination of 2 courses for a total of 8 credit hours.</p> <p>CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)</p> <p>BIOL 198 - Principles of Biology (4)</p> <p>PHYS 113 - General Physics I (4)</p> <p>Social Sciences/Humanities (9 credit hours)</p> <p>PSYCH 110 - General Psychology (3)</p> <p>or SOCIO 211 - Introduction to Sociology (3)</p> <p>Social Science Electives (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies or FSHS 350 - Family Relationships and Gender Roles (3)</p> <p>Humanities Electives (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)</p> <p>Unrestricted electives as needed to meet 127 credit hours</p> <p>Total credit hours required for graduation (127)</p>
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RATIONALE:

The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content. Also, the change will provide flexibility for students to meet an AGECE requirement by offering them a choice between AGECE515 (Food and Agribusiness Marketing) and AGECE570 (Food Manufacturing, Distribution and Retailing). Another change is to enhance consistency across the options while strengthening the overall curriculum by ensuring that all students in this degree program take at least 2 AGECE courses that are 598 or higher.

IMPACT:

The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall.

EFFECTIVE DATE:

Fall 2012

B.S. in Agribusiness: Food Industry Option

FROM:

TO:

Agricultural Economics (33 credit hours)	Agricultural Economics (<u>36</u> credit hours)
AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)	AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)
AGEC 120 - Agricultural Economics and Agribusiness (3)	<u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u>
AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)	AGEC 120 - Agricultural Economics and Agribusiness (3)
AGEC 318 - Food and Agribusiness Management (3)	or <u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u>
AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)	AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)
AGEC 500 - Production Economics (3)	AGEC 318 - Food and Agribusiness Management (3)
AGEC 505 - Agricultural Market Structures (3)	AGEC 500 - Production Economics (3)
AGEC 513 - Agricultural Finance (3)	<u>AGEC 501 - Data Analysis and Optimization (3)</u>
AGEC 515 - Food and Agribusiness Marketing (3)	AGEC 505 - Agricultural Market Structures (3)
AGEC 570 - Food Manufacturing, Distribution and Retailing (3)	AGEC 513 - Agricultural Finance (3)
AGEC 599 - Food and Agribusiness Management Strategies (3)	AGEC 515 - Food and Agribusiness Marketing (3)
AGEC 632 - Agribusiness Logistics (3)	AGEC 570 - Food Manufacturing, Distribution and Retailing (3)
Agricultural Economics Electives (6 credit hours)	AGEC 599 - Food and Agribusiness Management Strategies (3)
AGEC 410 - Agricultural Policy (3)	AGEC 632 - Agribusiness Logistics (3)
AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]	Agricultural Economics Electives (6 credit hours)
AGEC 420 - Commodity Futures (3)	AGEC 410 - Agricultural Policy (3)
AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)	AGEC 420 - Commodity Futures (3)
AGEC 516 - Agricultural Law and Economics (3)	AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)
AGEC 520 - Market Fundamentals and Futures/Options	AGEC 516 - Agricultural Law and Economics (3)
	AGEC 520 - Market Fundamentals and Futures/Options

Trading (3)	Trading (3)
AGEC 525 - Natural Resource and Environmental Economics (3)	AGEC 525 - Natural Resource and Environmental Economics (3)
AGEC 598 - Farm Management Strategies (3)	AGEC 598 - Farm Management Strategies (3)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)	AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)
AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]	AGEC 615 - Global Agricultural Development (3)
AGEC 623 - International Agricultural Trade (3)	AGEC 623 - International Agricultural Trade (3)
AGEC 680 - Risk Management (3)	AGEC 680 - Risk Management (3)
AGEC 710 - Comparative Food and Agriculture Systems (3)	AGEC 710 - Comparative Food and Agriculture Systems (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 631 - Principles of Transportation (3)	ECON 631 - Principles of Transportation (3)
GENAG 515 - Honors/Scholars Project (2)	GENAG 515 - Honors/Scholars Project (2)
Food Science and Technology Electives (6 credit hours)	Food Science and Technology Electives (6 credit hours)
ASI 318 - Fundamentals of Nutrition (3)	ASI 318 - Fundamentals of Nutrition (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 - Fundamentals of Milk Processing (3)	ASI 405 - Fundamentals of Milk Processing (3)
FDSCI 302 - Introduction to Food Science (3)	FDSCI 302 - Introduction to Food Science (3)
FDSCI 305 - Fundamentals of Food Processing (3)	FDSCI 305 - Fundamentals of Food Processing (3)
GRSC 101 - Introduction to Grain Science and Industry (3)	GRSC 101 - Introduction to Grain Science and Industry (3)
GRSC 150 - Principles of Milling (3)	GRSC 150 - Principles of Milling (3)
GRSC 210- CAD Flow Sheets for Grain Processes (3)	GRSC 210- CAD Flow Sheets for Grain Processes (3)
GRSC 500 - Milling Science I (4)	GRSC 500 - Milling Science I (4)
HORT 201 - Principles of Horticultural Science (4)	HORT 201 - Principles of Horticultural Science (4)
HORT 560 - Vegetable Crop Production (3)	HORT 560 - Vegetable Crop Production (3)
HN 132 - Basic Nutrition (3)	HN 132 - Basic Nutrition (3)
Communication (14 credit hours)	Communication (14 credit hours)
	ENGL 100 - Expository Writing I (3)

ENGL 100 - Expository Writing I (3)	ENGL 200 - Expository Writing II (3)
ENGL 200 - Expository Writing II (3)	COMM 105 - Public Speaking IA (2)
COMM 105 - Public Speaking IA (2)	Communication Electives (3) Select from: English (above 200), Communication studies (above 300) or a modern language
Communication Electives (3) Select from: English (above 200), Communication studies (above 300) or a modern language	AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)
AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)	Economics/Business (27 credit hours)
Economics/Business (27 credit hours)	ECON 110 - Principles of Macroeconomics (3)
ECON 110 - Principles of Macroeconomics (3)	ECON 510 - Intermediate Macroeconomics (3)
ECON 510 - Intermediate Macroeconomics (3)	ACCTG 231 - Accounting for Business Operations (3)
ACCTG 231 - Accounting for Business Operations (3)	ACCTG 241 - Accounting for Investing and Financing (3)
ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG, FINAN, MANGT, OR MKTG (500-level or above) (3)
ACCTG, FINAN, MANGT, OR MKTG (500-level or above) (3)	MANGT 420 - Management Concepts (3)
MANGT 420 - Management Concepts (3)	MKTG 400 - Introduction to Marketing (3)
MKTG 400 - Introduction to Marketing (3)	MKTG 450 - Consumer Behavior (3)
MKTG 450 - Consumer Behavior (3)	MKTG 541 - Retailing (3)
MKTG 541 - Retailing (3)	Mathematics/Statistics (6-9 credit hours)
Mathematics/Statistics (6-12 credit hours)	MATH 100 - College Algebra (3)
MATH 100 - College Algebra (3)	MATH 205 - General Calculus and Linear Algebra (3)
MATH 205 - General Calculus and Linear Algebra (3)	STAT 325 - Introduction to Statistics (3)
STAT 325 - Introduction to Statistics (3)	or
STAT 350 - Business and Economic Statistics I (3)	STAT 350 - Business and Economic Statistics I (3)
and	
STAT 351 - Business and Economic Statistics II (3)	
Natural Sciences (8 credit hours)	Natural Sciences (8 credit hours)
Select a combination of 2 courses for a total of 8 credit hours.	Select a combination of 2 courses for a total of 8 credit hours.
CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)	CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)
BIOL 198 - Principles of Biology (4)	BIOL 198 - Principles of Biology (4)

PHYS 113 - General Physics I (4)	PHYS 113 - General Physics I (4)
Social Sciences/Humanities (9 credit hours)	Social Sciences/Humanities (9 credit hours)
PSYCH 110 - General Psychology (3)	PSYCH 110 - General Psychology (3)
or	or
SOCIO 211 - Introduction to Sociology (3)	SOCIO 211 - Introduction to Sociology (3)
Social Science Electives: (3)	Social Science Electives: (3)
Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies	Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies
or	or
FSHS 350 - Family Relationships and Gender Roles (3)	FSHS 350 - Family Relationships and Gender Roles (3)
Humanities Electives (3)	Humanities Electives: (3)
Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language	Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language
or	or
ARCH 301 - Appreciation of Architecture (3)	ARCH 301 - Appreciation of Architecture (3)
Unrestricted electives as needed to meet 127 credit hours	Unrestricted electives as needed to meet 127 credit hours
Total credit hours required for graduation (127)	Total credit hours required for graduation (127)

RATIONALE:

The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content.

IMPACT:

The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall.

DATE EFFECTIVE:

Fall 2012

B.S. in Agribusiness: International Option

FROM:

TO:

<p>Agricultural Economics (30 credit hours)</p> <p>AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)</p> <p>AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p>AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]</p> <p>AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)</p> <p>AGEC 500 - Production Economics (3)</p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>AGEC 515 - Food and Agribusiness Marketing (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]</p> <p>AGEC 623 - International Agricultural Trade (3)</p> <p>Agricultural Economics Electives (9 credit hours)</p> <p>AGEC 410 - Agricultural Policy (3)</p> <p>AGEC 420 - Commodity Futures (3)</p> <p>AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)</p> <p>AGEC 513 - Agricultural Finance (3)</p> <p>AGEC 516 - Agricultural Law and Economics (3)</p>	<p>Agricultural Economics (<u>33</u> credit hours)</p> <p>AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)</p> <p><u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u></p> <p>AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p><u>or</u> <u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u></p> <p>AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 500 - Production Economics (3)</p> <p><u>AGEC 501 - Data Analysis and Optimization (3)</u></p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>AGEC 515 - Food and Agribusiness Marketing (3)</p> <p><u>or</u> <u>AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</u></p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 615 - Global Agricultural Development (3)</p> <p>AGEC 623 - International Agricultural Trade (3)</p> <p>Agricultural Economics Electives (9 credit hours)</p> <p>AGEC 410 - Agricultural Policy (3)</p> <p>AGEC 420 - Commodity Futures (3)</p> <p>AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)</p> <p>AGEC 513 - Agricultural Finance (3)</p> <p><u>AGEC 515 - Food and Agribusiness Marketing (3)</u></p> <p>AGEC 516 - Agricultural Law and Economics (3)</p>
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AGEC 520 - Market Fundamentals and Futures/Options Trading (3)	AGEC 520 - Market Fundamentals and Futures/Options Trading (3)
AGEC 525 - Natural Resource and Environmental Economics (3)	AGEC 525 - Natural Resource and Environmental Economics Credits: (3)
AGEC 570 - Food Manufacturing, Distribution and Retailing (3)	AGEC 570 - Food Manufacturing, Distribution and Retailing (3)
AGEC 598 - Farm Management Strategies (3)	AGEC 598 - Farm Management Strategies (3)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)	AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)
AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]	AGEC 615 - Global Agricultural Development Credits: (3)
AGEC 632 - Agribusiness Logistics (3)	AGEC 632 - Agribusiness Logistics (3)
AGEC 680 - Risk Management (3)	AGEC 680 - Risk Management (3)
AGEC 710 - Comparative Food and Agriculture Systems (3)	AGEC 710 - Comparative Food and Agriculture Systems (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 631 - Principles of Transportation (3)	ECON 631 - Principles of Transportation (3)
GENAG 515 - Honors/Scholars Project (2)	GENAG 515 - Honors/Scholars Project (2)
Agricultural and Food Science Technology Restricted Electives (6 credit hours)	Agricultural and Food Science Technology Restricted Electives (6 credit hours)
AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)	AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)
AGRON 305 - Soils (4)	AGRON 305 - Soils (4)
AGRON 330 - Weed Science (3)	AGRON 330 - Weed Science (3)
ASI 102 - Principles of Animal Science (3)	ASI 102 - Principles of Animal Science (3)
ASI 105 - Animal Sciences and Industry (1)	ASI 105 - Animal Sciences and Industry (1)
ASI 106 - Dairy and Poultry Science (1)	ASI 106 - Dairy and Poultry Science (1)
ASI 318 - Fundamentals of Nutrition (3)	ASI 318 - Fundamentals of Nutrition (3)
ASI 320 - Principles of Feeding (3)	ASI 320 - Principles of Feeding (3)
ATM 160 - Engineered Systems and Technology in Agriculture (3)	ATM 160 - Engineered Systems and Technology in Agriculture (3)
FDSCI 302 - Introduction to Food Science (3)	FDSCI 302 - Introduction to Food Science (3)
FDSCI 305 - Fundamentals of Food Processing (3)	FDSCI 305 - Fundamentals of Food Processing (3)
GRSC 101 - Introduction to Grain Science and Industry	GRSC 101 - Introduction to Grain Science and Industry

<p>(3)</p> <p>See department list for other courses.</p> <p>Communication (14 credit hours)</p> <p>ENGL 100 - Expository Writing I (3)</p> <p>ENGL 200 - Expository Writing II (3)</p> <p>COMM 105 - Public Speaking IA (2)</p> <p>Communication elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language</p> <p>AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)</p> <p>Economics/Business (21 credit hours) ECON 110 - Principles of Macroeconomics (3)</p> <p>ECON 510 - Intermediate Macroeconomics (3)</p> <p>ACCTG 231 - Accounting for Business Operations (3)</p> <p>ACCTG 241 - Accounting for Investing and Financing (3)</p> <p>MANGT 420 - Management Concepts (3)</p> <p>ACCTG, FINAN, MANGT, OR MKTG Elective (300-level or above) (3)</p> <p>MKTG 544 - International Marketing (3) or MANGT 690 - International Management (3) or FINAN 643 - International Financial Management (3)</p> <p>Finance Overlay</p> <p>AGEC 513 - Agricultural Finance (3) or FINAN 450 - Principles of Finance (3)</p> <p>Mathematics/Statistics (6-12 credit hours)</p> <p>MATH 100 - College Algebra (3)</p> <p>MATH 205 - General Calculus and Linear Algebra (3)</p> <p>STAT 325 - Introduction to Statistics (3) or STAT 350 - Business and Economic Statistics I (3) and STAT 351 - Business and Economic Statistics II (3)</p> <p>Natural Sciences (8 credit hours)</p>	<p>Credits: (3)</p> <p>See department list for other courses.</p> <p>Communication (14 credit hours)</p> <p>ENGL 100 - Expository Writing I (3)</p> <p>ENGL 200 - Expository Writing II (3)</p> <p>COMM 105 - Public Speaking IA (2)</p> <p>Communication elective Credits: (3) Select from: English (above 200), Communication studies (above 300) or a modern language</p> <p>AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)</p> <p>Economics/Business (21 credit hours) ECON 110 - Principles of Macroeconomics (3)</p> <p>ECON 510 - Intermediate Macroeconomics (3)</p> <p>ACCTG 231 - Accounting for Business Operations (3)</p> <p>ACCTG 241 - Accounting for Investing and Financing (3)</p> <p>MANGT 420 - Management Concepts (3)</p> <p>ACCTG, FINAN, MANGT, OR MKTG Elective (300-level or above) (3)</p> <p>MKTG 544 - International Marketing (3) or MANGT 690 - International Management (3) or FINAN 643 - International Financial Management (3)</p> <p>Finance Overlay</p> <p>AGEC 513 - Agricultural Finance (3) or FINAN 450 - Principles of Finance (3)</p> <p>Mathematics/Statistics (6-12 credit hours)</p> <p>MATH 100 - College Algebra (3)</p> <p>MATH 205 - General Calculus and Linear Algebra (3)</p> <p>STAT 350 - Business and Economic Statistics I (3)</p> <p>Natural Sciences (8 credit hours)</p>
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Select a combination of 2 courses for a total of 8 credit hours.	Select a combination of 2 courses for a total of 8 credit hours.
CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)	CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)
BIOL 198 - Principles of Biology (4)	BIOL 198 - Principles of Biology (4)
PHYS 113 - General Physics I (4)	PHYS 113 - General Physics I (4)
Social Sciences/Humanities (9 credit hours)	Social Sciences/Humanities (9 credit hours)
PSYCH 110 - General Psychology (3) or SOCIO 211 - Introduction to Sociology (3)	PSYCH 110 - General Psychology (3) or SOCIO 211 - Introduction to Sociology (3)
GEOG 100 - World Regional Geography (3)	GEOG 100 - World Regional Geography (3)
Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)	Humanities elective Credits: (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)
International Experience (3 credit hours)	International Experience (3 credit hours)
Language Requirement: Level III proficiency	Language Requirement: Level III proficiency
Unrestricted electives as needed to meet 127 credit hours	Unrestricted electives as needed to meet 127 credit hours
Total credit hours required for graduation (127)	Total credit hours required for graduation (127)

RATIONALE:

The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content. Also, the change will provide flexibility for students to meet an AGECE requirement by offering them a choice between AGECE515 (Food and Agribusiness Marketing) and AGECE570 (Food Manufacturing, Distribution and Retailing).

IMPACT:

The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall.

EFFECTIVE DATE:

Fall 2012

B.S. in Agriculture: Agricultural Economics Major
Farm Management Option

FROM:

TO:

Agricultural Economics (24 credit hours)	Agricultural Economics (27 credit hours)
AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)	AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)
AGEC 120 - Agricultural Economics and Agribusiness (3)	<u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u>
AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)	AGEC 120 - Agricultural Economics and Agribusiness (3)
AGEC 308 – Farm and Ranch Management (3)	<u>or</u> <u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u>
AGEC 490 – Computer Applications in Agricultural Economics and Agribusiness (2)	AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)
AGEC 500 - Production Economics (3)	AGEC 308 – Farm and Ranch Management (3)
AGEC 505 - Agricultural Market Structures (3)	AGEC 500 - Production Economics (3)
AGEC 513 - Agricultural Finance (3)	<u>AGEC 501 - Data Analysis and Optimization (3)</u>
AGEC 598 - Farm Management Strategies (3)	AGEC 505 - Agricultural Market Structures (3)
Agricultural Economics Electives (15 credit hours)	AGEC 513 - Agricultural Finance (3)
Include at least one numbered 600 or above.	AGEC 598 - Farm Management Strategies (3)
AGEC 410 - Agricultural Policy (3)	Agricultural Economics Electives (15 credit hours)
AGEC 415 – The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]	Include at least one numbered 600 or above.
AGEC 420 - Commodity Futures (3)	AGEC 410 - Agricultural Policy (3)
AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)	AGEC 415 – The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]
AGEC 515 - Food and Agribusiness Marketing (3)	AGEC 420 - Commodity Futures (3)
AGEC 516 - Agricultural Law and Economics (3)	AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)
AGEC 520 - Market Fundamentals and Futures/Options Trading (3)	AGEC 515 - Food and Agribusiness Marketing (3)
AGEC 525 - Natural Resource and Environmental Economics (3)	AGEC 516 - Agricultural Law and Economics (3)
AGEC 570 - Food Manufacturing, Distribution and	AGEC 520 - Market Fundamentals and Futures/Options Trading (3)
	AGEC 525 - Natural Resource and Environmental Economics (3)
	AGEC 570 - Food Manufacturing, Distribution and

Retailing (3)	Retailing (3)
AGEC 599 - Food and Agribusiness Management Strategies: (3)	AGEC 599 - Food and Agribusiness Management Strategies (3)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)	AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)
AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]	AGEC 615 - Global Agricultural Development (3)
AGEC 623 - International Agricultural Trade (3)	AGEC 623 - International Agricultural Trade (3)
AGEC 632 - Agribusiness Logistics (3)	AGEC 632 - Agribusiness Logistics (3)
AGEC 680 - Risk Management (3)	AGEC 680 - Risk Management (3)
AGEC 710 - Comparative Food and Agriculture Systems (3)	AGEC 710 - Comparative Food and Agriculture Systems (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 631 - Principles of Transportation (3)	ECON 631 - Principles of Transportation (3)
GENAG 515 - Honors/Scholars Project (2)	GENAG 515 - Honors/Scholars Project (2)
Agriculture (15 credit hours) AGRON 220 - Crop Science (4)	Agriculture (15 credit hours) AGRON 220 - Crop Science (4)
AGRON 305 - Soils (4)	AGRON 305 - Soils (4)
ASI 102 - Principles of Animal Science (3)	ASI 102 - Principles of Animal Science (3)
ASI 105 - Animal Sciences and Industry (1) or ASI 106 - Dairy and Poultry Science (1)	ASI 105 - Animal Sciences and Industry (1) or ASI 106 - Dairy and Poultry Science (1)
ATM 160 - Engineered Systems and Technology in Agriculture (3)	ATM 160 - Engineered Systems and Technology in Agriculture (3)
Agricultural and Food Science Technology Restricted Electives (9 credit hours)	Agricultural and Food Science Technology Restricted Electives (9 credit hours)
AGRON 330 - Weed Science (3)	AGRON 330 - Weed Science (3)
AGRON 375 – Soil Fertility (3)	AGRON 375 – Soil Fertility (3)
AGRON 501 - Ranch Management (3)	AGRON 501 - Ranch Management (3)
ASI 318 - Fundamentals of Nutrition (3)	ASI 318 - Fundamentals of Nutrition (3)
ASI 320 - Principles of Livestock Feeding (3)	ASI 320 - Principles of Livestock Feeding (3)
ASI 400 - Farm Animal Reproduction (4)	ASI 400 - Farm Animal Reproduction (4)
ASI 515 - Beef Science (3)	ASI 515 - Beef Science (3)
ASI 535 - Swine Science (3)	ASI 535 - Swine Science (3)

ENTOM 300 - Economic Entomology (3)	ENTOM 300 - Economic Entomology (3)
PLPTH 500 - Principles of Plant Pathology (3)	PLPTH 500 - Principles of Plant Pathology (3)
BAE 350 - Agricultural Machinery Systems (2)	BAE 350 - Agricultural Machinery Systems (2)
BAE 351 - Agricultural Machinery Systems Lab (1)	BAE 351 - Agricultural Machinery Systems Lab (1)
ATM 511 - Agricultural Building Systems (3)	ATM 511 - Agricultural Building Systems: (3)
ATM 545 - Processing and Storage of Grains (3)	ATM 545 - Processing and Storage of Grains (3)
ATM 653 - Water Management and Irrigation Systems (3)	ATM 653 - Water Management and Irrigation Systems (3)
ATM 661 - Watershed Management (3)	ATM 661 - Watershed Management (3)
See department list for other courses.	See department list for other courses.
Communication (14 credit hours)	Communication (14 credit hours)
ENGL 100 - Expository Writing I (3)	ENGL 100 - Expository Writing I (3)
ENGL 200 - Expository Writing II (3)	ENGL 200 - Expository Writing II (3)
COMM 105 - Public Speaking IA (2)	COMM 105 - Public Speaking IA (2)
Communication elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language	Communication elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language
AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)	AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)
Economics/Business (12 credit hours)	Economics/Business (12 credit hours)
ECON 110 - Principles of Macroeconomics (3)	ECON 110 - Principles of Macroeconomics (3)
ECON 510 - Intermediate Macroeconomics (3)	ECON 510 - Intermediate Macroeconomics (3)
ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3)
Mathematics/Statistics (6-12 credit hours)	Mathematics/Statistics (9 credit hours)
MATH 100 - College Algebra (3)	MATH 100 - College Algebra (3)
MATH 205 - General Calculus and Linear Algebra (3)	MATH 205 - General Calculus and Linear Algebra (3)
STAT 325 - Introduction to Statistics (3) or STAT 350 - Business and Economic Statistics I (3) and STAT 351 - Business and Economic Statistics II (3)	STAT 350 - Business and Economic Statistics I (3)
Natural Sciences (8 credit hours)	Natural Sciences (8 credit hours)

Select a combination of 2 courses for a total of 8 credit hours.	Select a combination of 2 courses for a total of 8 credit hours.
CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)	CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)
BIOL 198 - Principles of Biology (4)	BIOL 198 - Principles of Biology (4)
PHYS 113 - General Physics I (4)	PHYS 113 - General Physics I (4)
Social Sciences/Humanities (9 credit hours)	Social Sciences/Humanities (9 credit hours)
PSYCH 110 - General Psychology (3)	PSYCH 110 - General Psychology Credits: (3)
or SOCIO 211 - Introduction to Sociology (3)	or SOCIO 211 - Introduction to Sociology Credits: (3)
Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies	Social Science elective: (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies
or FSHS 350 - Family Relationships and Gender Roles (3)	or FSHS 350 - Family Relationships and Gender Roles 3)
Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language	Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language
or ARCH 301 - Appreciation of Architecture (3)	or ARCH 301 - Appreciation of Architecture (3)
Unrestricted electives as needed to meet 127 credit hours	Unrestricted electives as needed to meet 127 credit hours
Total credit hours required for graduation (127)	Total credit hours required for graduation (127)

RATIONALE:

The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content.

IMPACT:

The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall.

EFFECTIVE DATE:

Fall 2012

B.S. in Agriculture: Agricultural Economics Major
 Specialty Option: Natural Resources and Environmental Sciences

FROM:

TO:

Agricultural Economics (48 credit hours)	Agricultural Economics (21 credit hours)
AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)	AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)
AGEC 120 - Agricultural Economics and Agribusiness (3)	<u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u>
AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)	AGEC 120 - Agricultural Economics and Agribusiness (3)
AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)	<u>or</u> <u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u>
AGEC 500 - Production Economics (3)	AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)
AGEC 505 - Agricultural Market Structures (3)	AGEC 500 - Production Economics (3)
AGEC 525 - Natural Resource and Environmental Economics (3)	<u>AGEC 501 - Data Analysis and Optimization (3)</u>
Agricultural Economics Electives (18 credit hours)	AGEC 505 - Agricultural Market Structures (3)
Include at least two numbered 598 or above	AGEC 525 - Natural Resource and Environmental Economics (3)
AGEC 308 - Farm and Ranch Management (3)	Agricultural Economics Electives (18 credit hours)
AGEC 318 - Food and Agribusiness Management (3)	Include at least two numbered 598 or above
AGEC 410 - Agricultural Policy (3)	AGEC 308 - Farm and Ranch Management Credits: (3)
AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty Credits: (3) [discontinued Fall 2012]	AGEC 318 - Food and Agribusiness Management (3)
AGEC 420 - Commodity Futures (3)	AGEC 410 - Agricultural Policy (3)
AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)	AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty Credits: (3) [discontinued Fall 2012]
AGEC 513 - Agricultural Finance (3)	AGEC 420 - Commodity Futures (3)
AGEC 515 - Food and Agribusiness Marketing (3)	AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)
AGEC 516 - Agricultural Law and Economics (3)	AGEC 513 - Agricultural Finance (3)
AGEC 520 - Market Fundamentals and Futures/Options Trading (3)	AGEC 515 - Food and Agribusiness Marketing (3)
AGEC 570 - Food Manufacturing, Distribution and Retailing (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>AGEC 598 - Farm Management Strategies: (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 605 - Price Analysis and Forecasting (3)</p> <p>AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)</p> <p>AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]</p> <p>AGEC 623 - International Agricultural Trade (3)</p> <p>AGEC 632 - Agribusiness Logistics (3)</p> <p>AGEC 680 - Risk Management (3)</p> <p>AGEC 710 - Comparative Food and Agriculture Systems (3)</p> <p>AGEC 712 - Optimization Techniques for Agricultural Economics (3)</p> <p>ECON 631 - Principles of Transportation (3)</p> <p>GENAG 515 - Honors/Scholars Project (2)</p> <p>Agriculture and Environment (6-7 credit hours)</p> <p>AGRON 305 - Soils (4) or AGRON 335 – Environmental Quality (3)</p> <p>FOR 285 - Forest Resource Management (3) or FOR 375 - Introduction to Natural Resource Management (3)</p> <p>Communication (14 credit hours)</p> <p>ENGL 100 - Expository Writing I (3)</p> <p>ENGL 200 - Expository Writing II (3)</p> <p>COMM 105 - Public Speaking IA (2)</p> <p>Communication elective: (3) Select from: English (above 200), Communication studies (above 300) or a modern language</p> <p>AGCOM 400 - Agricultural Business Communications: (3) or ENGL 516 - Written Communication for the Sciences (3)</p> <p>Economics/Business (12 credit hours) ECON 110 - Principles of Macroeconomics (3)</p>	<p>AGEC 598 - Farm Management Strategies (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 605 - Price Analysis and Forecasting (3)</p> <p>AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)</p> <p>AGEC 615 - Global Agricultural Development (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>AGEC 710 - Comparative Food and Agriculture Systems (3)</p> <p>AGEC 712 - Optimization Techniques for Agricultural Economics (3)</p> <p>ECON 631 - Principles of Transportation (3)</p> <p>GENAG 515 - Honors/Scholars Project (2)</p> <p>Agriculture and Environment (6-7 credit hours)</p> <p>AGRON 305 - Soils (4) or AGRON 335 – Environmental Quality (3)</p> <p>FOR 285 - Forest Resource Management (3) or FOR 375 - Introduction to Natural Resource Management (3)</p> <p>Communication (14 credit hours)</p> <p>ENGL 100 - Expository Writing I (3)</p> <p>ENGL 200 - Expository Writing II (3)</p> <p>COMM 105 - Public Speaking IA (2)</p> <p>Communication elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language</p> <p>AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)</p> <p>Economics/Business (12 credit hours) ECON 110 - Principles of Macroeconomics (3)</p>
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ECON 510 - Intermediate Macroeconomics (3)	ECON 510 - Intermediate Macroeconomics (3)
ACCTG 231 - Accounting for Business Operations (3)	ACCTG 231 - Accounting for Business Operations (3)
ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG 241 - Accounting for Investing and Financing (3)
	<u>Finance Overlay</u>
	<u>AGEC 513 - Agricultural Finance (3)</u> or <u>FINAN 450 - Principles of Finance (3)</u>
Mathematics/Statistics (6-12 credit hours)	Mathematics/Statistics (<u>9</u> credit hours)
MATH 100 - College Algebra (3)	MATH 100 - College Algebra (3)
MATH 205 - General Calculus and Linear Algebra (3)	MATH 205 - General Calculus and Linear Algebra (3)
STAT 325 - Introduction to Statistics (3) or STAT 350 - Business and Economic Statistics I (3) and STAT 351 - Business and Economic Statistics II (3)	STAT 350 - Business and Economic Statistics I (3)
Natural Sciences (12 credit hours)	Natural Sciences (12 credit hours)
BIOL 198 - Principles of Biology (4)	BIOL 198 - Principles of Biology (4)
CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)	CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)
PHYS 113 - General Physics I (4) or PHYS 101 - The Physical World I (3) and PHYS 103 - The Physical World I Laboratory (3)	PHYS 113 - General Physics I (4) or PHYS 101 - The Physical World I (3) and PHYS 103 - The Physical World I Laboratory (3)
Social Sciences/Humanities (9 credit hours)	Social Sciences/Humanities (9 credit hours)
PSYCH 110 - General Psychology (3) or SOCIO 211 - Introduction to Sociology (3)	PSYCH 110 - General Psychology (3) or SOCIO 211 - Introduction to Sociology (3)
Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies or FSHS 350 - Family Relationships and Gender Roles (3)	Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies or FSHS 350 - Family Relationships and Gender Roles (3)
Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)	Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)
Specialty in Natural Resources and Environmental	Specialty in Natural Resources and Environmental

Sciences (15 credit hours)	Sciences (15 credit hours)
See Block Elective Requirement at http://www.k-state.edu/nres/require.html#Block Elective Requirements . Include at least 6 credit hours numbered 500 or above.	See Block Elective Requirement at http://www.k-state.edu/nres/require.html#Block Elective Requirements . Include at least 6 credit hours numbered 500 or above.
Unrestricted electives as needed to meet 127 credit hours	Unrestricted electives as needed to meet 127 credit hours
Total credit hours required for graduation (127)	Total credit hours required for graduation (127)

RATIONALE: The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content. Another change is to enhance consistency across the options while strengthening the overall curriculum by requiring that all students in this degree program take a finance course (AGEC513 or FINAN450).

IMPACT: The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall. The Department Head of Finance (Eric Higgins) was contacted and responded that the department is fine with the changes.

EFFECTIVE DATE: Fall 2012

B.S. in Agriculture: Agricultural Economics Major, Specialty Option

FROM:

TO:

Agricultural Economics (45 credit hours)	Agricultural Economics (<u>18</u> credit hours)
AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)	AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)
AGEC 120 - Agricultural Economics and Agribusiness (3)	<u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u>
AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)	AGEC 120 - Agricultural Economics and Agribusiness (3) or <u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u>
AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)	AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)
AGEC 500 - Production Economics (3)	AGEC 500 - Production Economics (3) <u>AGEC 501 - Data Analysis and Optimization (3)</u>
AGEC 505 - Agricultural Market Structures (3)	AGEC 505 - Agricultural Market Structures (3)
Agricultural Economics Electives (21 credit hours)	Agricultural Economics Electives (21 credit hours)

Include at least two numbered 598 or above	Include at least two numbered 598 or above
AGEC 308 - Farm and Ranch Management (3)	AGEC 308 - Farm and Ranch Management (3)
AGEC 318 - Food and Agribusiness Management (3)	AGEC 318 - Food and Agribusiness Management (3)
AGEC 410 - Agricultural Policy (3)	AGEC 410 - Agricultural Policy (3)
AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]	AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]
AGEC 420 - Commodity Futures (3)	AGEC 420 - Commodity Futures (3)
AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)	AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)
AGEC 513 - Agricultural Finance (3)	AGEC 513 - Agricultural Finance (3)
AGEC 515 - Food and Agribusiness Marketing (3)	AGEC 515 - Food and Agribusiness Marketing (3)
AGEC 516 - Agricultural Law and Economics (3)	AGEC 516 - Agricultural Law and Economics (3)
AGEC 520 - Market Fundamentals and Futures/Options Trading (3)	AGEC 520 - Market Fundamentals and Futures/Options Trading (3)
AGEC 525 - Natural Resource and Environmental Economics (3)	AGEC 525 - Natural Resource and Environmental Economics (3)
AGEC 570 - Food Manufacturing, Distribution and Retailing (3)	AGEC 570 - Food Manufacturing, Distribution and Retailing (3)
AGEC 598 - Farm Management Strategies (3)	AGEC 598 - Farm Management Strategies (3)
AGEC 599 - Food and Agribusiness Management Strategies (3)	AGEC 599 - Food and Agribusiness Management Strategies (3)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)	AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)
AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]	AGEC 615 - Global Agricultural Development (3)
AGEC 623 - International Agricultural Trade (3)	AGEC 623 - International Agricultural Trade (3)
AGEC 632 - Agribusiness Logistics (3)	AGEC 632 - Agribusiness Logistics (3)
AGEC 680 - Risk Management (3)	AGEC 680 - Risk Management (3)
AGEC 710 - Comparative Food and Agriculture Systems (3)	AGEC 710 - Comparative Food and Agriculture Systems (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 631 - Principles of Transportation (3)	ECON 631 - Principles of Transportation (3)
GENAG 515 - Honors/Scholars Project (2)	GENAG 515 - Honors/Scholars Project (2)
Agricultural and Food Science Technology Restricted	Agricultural and Food Science Technology Restricted

Electives (6 credit hours)	Electives (6 credit hours)
AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)	AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)
AGRON 305 - Soils (4)	AGRON 305 - Soils Credits: (4)
AGRON 330 - Weed Science (3)	AGRON 330 - Weed Science (3)
ASI 102 - Principles of Animal Science (3)	ASI 102 - Principles of Animal Science (3)
ASI 105 - Animal Sciences and Industry (1)	ASI 105 - Animal Sciences and Industry (1)
ASI 106 - Dairy and Poultry Science (1)	ASI 106 - Dairy and Poultry Science (1)
ASI 318 - Fundamentals of Nutrition (3)	ASI 318 - Fundamentals of Nutrition (3)
ASI 320 - Principles of Feeding (3)	ASI 320 - Principles of Feeding (3)
ATM 160 - Engineered Systems and Technology in Agriculture (3)	ATM 160 - Engineered Systems and Technology in Agriculture (3)
FDSCI 302 - Introduction to Food Science (3)	FDSCI 302 - Introduction to Food Science (3)
FDSCI 305 - Fundamentals of Food Processing (3)	FDSCI 305 - Fundamentals of Food Processing (3)
GRSC 101 - Introduction to Grain Science and Industry (3)	GRSC 101 - Introduction to Grain Science and Industry (3)
See department list for other courses.	See department list for other courses.
Communication (14 credit hours)	Communication (14 credit hours)
ENGL 100 - Expository Writing I (3)	ENGL 100 - Expository Writing I (3)
ENGL 200 - Expository Writing II (3)	ENGL 200 - Expository Writing II (3)
COMM 105 - Public Speaking IA (2)	COMM 105 - Public Speaking IA (2)
Communication elective Credits: (3) Select from: English (above 200), Communication studies (above 300) or a modern language	Communication elective Credits: (3) Select from: English (above 200), Communication studies (above 300) or a modern language
AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)	AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)
Economics/Business (12 credit hours)	Economics/Business (12 credit hours)
ECON 110 - Principles of Macroeconomics (3)	ECON 110 - Principles of Macroeconomics (3)
ECON 510 - Intermediate Macroeconomics (3)	ECON 510 - Intermediate Macroeconomics (3)
ACCTG 231 - Accounting for Business Operations (3)	ACCTG 231 - Accounting for Business Operations (3)
ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG 241 - Accounting for Investing and Financing (3)
	<u>Finance Overlay</u>

<p>Mathematics/Statistics (6-12 credit hours)</p> <p>MATH 100 - College Algebra Credits: (3)</p> <p>MATH 205 - General Calculus and Linear Algebra Credits: (3)</p> <p>STAT 325 - Introduction to Statistics Credits: (3) or STAT 350 - Business and Economic Statistics I Credits: (3) and STAT 351 - Business and Economic Statistics II Credits: (3)</p> <p>Natural Sciences (8 credit hours)</p> <p>Select a combination of 2 courses for a total of 8 credit hours.</p> <p>CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)</p> <p>BIOL 198 - Principles of Biology (4)</p> <p>PHYS 113 - General Physics I (4)</p> <p>Social Sciences/Humanities (9 credit hours)</p> <p>PSYCH 110 - General Psychology (3)</p> <p>or SOCIO 211 - Introduction to Sociology (3)</p> <p>Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies or FSHS 350 - Family Relationships and Gender Roles (3)</p> <p>Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)</p> <p>Specialty (15 credit hours)</p> <p>All hours from the same department/field, minimum 3 hours 300 level or above, and 6 hours 500 level or above. (Minors, Modern Languages, and Accounting are exempt from the course level requirement.)</p> <p>Unrestricted electives as needed to meet 127 credit hours</p>	<p><u>AGEC 513 - Agricultural Finance (3)</u> or <u>FINAN 450 - Principles of Finance (3)</u></p> <p>Mathematics/Statistics (9 credit hours)</p> <p>MATH 100 - College Algebra (3)</p> <p>MATH 205 - General Calculus and Linear Algebra (3)</p> <p>STAT 350 - Business and Economic Statistics I Credits: (3)</p> <p>Natural Sciences (8 credit hours)</p> <p>Select a combination of 2 courses for a total of 8 credit hours.</p> <p>CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1)</p> <p>BIOL 198 - Principles of Biology (4)</p> <p>PHYS 113 - General Physics I (4)</p> <p>Social Sciences/Humanities (9 credit hours)</p> <p>PSYCH 110 - General Psychology (3)</p> <p>or SOCIO 211 - Introduction to Sociology (3)</p> <p>Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies or FSHS 350 - Family Relationships and Gender Roles (3)</p> <p>Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language or ARCH 301 - Appreciation of Architecture (3)</p> <p>Specialty (15 credit hours)</p> <p>All hours from the same department/field, minimum 3 hours 300 level or above, and 6 hours 500 level or above. (Minors, Modern Languages, and Accounting are exempt from the course level requirement.)</p> <p>Unrestricted electives as needed to meet 127 credit hours</p>
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Total credit hours required for graduation (127)	Total credit hours required for graduation (127)
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RATIONALE: The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content. Another change is to enhance consistency across the options while strengthening the overall curriculum by requiring that all students in this degree program take a finance course (AGEC513 or FINAN450).

IMPACT: The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall. The Department Head of Finance (Eric Higgins) was contacted and responded that the department is fine with the changes.

EFFECTIVE DATE: Fall 2012

B.S. in Agriculture: Agricultural Economics Major
Specialty Option: Pre-Law

FROM:	TO:
Agricultural Economics (24 credit hours)	Agricultural Economics (24 credit hours)
AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)	AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)
	<u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u>
AGEC 120 - Agricultural Economics and Agribusiness (3)	AGEC 120 - Agricultural Economics and Agribusiness (3)
	or
	<u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u>
AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)	AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)
AGEC 410 - Agricultural Policy (3)	AGEC 410 - Agricultural Policy (3)
AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)	
AGEC 500 - Production Economics (3)	AGEC 500 - Production Economics (3)
	<u>AGEC 501 - Data Analysis and Optimization (3)</u>
AGEC 505 - Agricultural Market Structures (3)	AGEC 505 - Agricultural Market Structures (3)
AGEC 516 - Agricultural Law and Economics (3)	AGEC 516 - Agricultural Law and Economics (3)

<p>Agricultural Economics Electives (15 credit hours)</p> <p>Include at least two numbered 598 or above</p> <p>AGEC 308 - Farm and Ranch Management (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) [discontinued Fall 2012]</p> <p>AGEC 420 - Commodity Futures (3)</p> <p>AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)</p> <p>AGEC 513 - Agricultural Finance (3)</p> <p>AGEC 515 - Food and Agribusiness Marketing (3)</p> <p>AGEC 520 - Market Fundamentals and Futures/Options Trading (3)</p> <p>AGEC 525 - Natural Resource and Environmental Economics (3)</p> <p>AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</p> <p>AGEC 598 - Farm Management Strategies (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 605 - Price Analysis and Forecasting (3)</p> <p>AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)</p> <p>AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]</p> <p>AGEC 623 - International Agricultural Trade (3)</p> <p>AGEC 632 - Agribusiness Logistics (3)</p> <p>AGEC 680 - Risk Management (3)</p> <p>AGEC 710 - Comparative Food and Agriculture Systems (3)</p> <p>AGEC 712 - Optimization Techniques for Agricultural Economics (3)</p> <p>ECON 631 - Principles of Transportation (3)</p> <p>GENAG 515 - Honors/Scholars Project (2)</p> <p>Agricultural and Food Science Technology Restricted Electives (6 credit hours)</p> <p>AGRON 220 - Crop Science (4)</p>	<p>Agricultural Economics Electives (15 credit hours)</p> <p>Include at least two numbered 598 or above</p> <p>AGEC 308 - Farm and Ranch Management (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 420 - Commodity Futures (3)</p> <p>AGEC 460 - International Food and Agribusiness Study Tour Credits: (0-6) (Limit 3 credit hours)</p> <p>AGEC 513 - Agricultural Finance (3)</p> <p>AGEC 515 - Food and Agribusiness Marketing (3)</p> <p>AGEC 520 - Market Fundamentals and Futures/Options Trading (3)</p> <p>AGEC 525 - Natural Resource and Environmental Economics (3)</p> <p>AGEC 570 - Food Manufacturing, Distribution and Retailing (3)</p> <p>AGEC 598 - Farm Management Strategies (3)</p> <p>AGEC 599 - Food and Agribusiness Management Strategies (3)</p> <p>AGEC 605 - Price Analysis and Forecasting (3)</p> <p>AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)</p> <p>AGEC 615 - Global Agricultural Development (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>AGEC 710 - Comparative Food and Agriculture Systems (3)</p> <p>AGEC 712 - Optimization Techniques for Agricultural Economics (3)</p> <p>ECON 631 - Principles of Transportation (3)</p> <p>GENAG 515 - Honors/Scholars Project (2)</p> <p>Agricultural and Food Science Technology Restricted Electives (6 credit hours)</p> <p>AGRON 220 - Crop Science (4)</p>
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<p>or HORT 201 - Principles of Horticultural Science (4)</p> <p>AGRON 305 - Soils (4)</p> <p>AGRON 330 - Weed Science (3)</p> <p>AGRON 501 - Ranch Management (3)</p> <p>ASI 102 - Principles of Animal Science (3)</p> <p>ASI 105 - Animal Sciences and Industry (1)</p> <p>ASI 106 - Dairy and Poultry Science (1)</p> <p>ASI 318 - Fundamentals of Nutrition (3)</p> <p>ASI 320 - Principles of Feeding (3)</p> <p>ATM 160 - Engineered Systems and Technology in Agriculture (3)</p> <p>FDSCI 302 - Introduction to Food Science (3)</p> <p>FDSCI 305 - Fundamentals of Food Processing (3)</p> <p>FOR 375 - Introduction to Natural Resource Management (3)</p> <p>GRSC 101 - Introduction to Grain Science and Industry (3)</p> <p>See department list for other courses.</p> <p>Communication (14 credit hours)</p> <p>ENGL 100 - Expository Writing I (3)</p> <p>ENGL 200 - Expository Writing II (3)</p> <p>COMM 105 - Public Speaking IA (2)</p> <p>Communication elective (3) Select from: COMM 331 - Criticism of Public Discourse (3) COMM 430 - Freedom of Speech (3) COMM 435 - Political Communication (3) COMM 450 - Special Studies in Human Discourse (3) COMM 526 - Persuasion (3)</p> <p>AGCOM 400 - Agricultural Business Communications (3)</p> <p>or ENGL 516 - Written Communication for the Sciences (3)</p> <p>Economics/Business (12 credit hours)</p> <p>ECON 110 - Principles of Macroeconomics (3)</p> <p>ECON 510 - Intermediate Macroeconomics (3)</p>	<p>or HORT 201 - Principles of Horticultural Science (4)</p> <p>AGRON 305 - Soils (4)</p> <p>AGRON 330 - Weed Science (3)</p> <p>AGRON 501 - Ranch Management (3)</p> <p>ASI 102 - Principles of Animal Science (3)</p> <p>ASI 105 - Animal Sciences and Industry (1)</p> <p>ASI 106 - Dairy and Poultry Science (1)</p> <p>ASI 318 - Fundamentals of Nutrition (3)</p> <p>ASI 320 - Principles of Feeding (3)</p> <p>ATM 160 - Engineered Systems and Technology in Agriculture (3)</p> <p>FDSCI 302 - Introduction to Food Science (3)</p> <p>FDSCI 305 - Fundamentals of Food Processing: (3)</p> <p>FOR 375 - Introduction to Natural Resource Management (3)</p> <p>GRSC 101 - Introduction to Grain Science and Industry (3)</p> <p>See department list for other courses.</p> <p>Communication (14 credit hours)</p> <p>ENGL 100 - Expository Writing I (3)</p> <p>ENGL 200 - Expository Writing II (3)</p> <p>COMM 105 - Public Speaking IA (2)</p> <p>Communication elective (3) Select from: COMM 331 - Criticism of Public Discourse (3) COMM 430 - Freedom of Speech (3) COMM 435 - Political Communication (3) COMM 450 - Special Studies in Human Discourse (3) COMM 526 - Persuasion (3)</p> <p>AGCOM 400 - Agricultural Business Communications (3)</p> <p>or ENGL 516 - Written Communication for the Sciences (3)</p> <p>Economics/Business (12 credit hours)</p> <p>ECON 110 - Principles of Macroeconomics (3)</p> <p>ECON 510 - Intermediate Macroeconomics (3)</p>
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ACCTG 231 - Accounting for Business Operations (3)	ACCTG 231 - Accounting for Business Operations (3)
ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG 241 - Accounting for Investing and Financing (3)
	<u>Finance Overlay</u>
	<u>AGEC 513 - Agricultural Finance (3)</u>
	<u>or</u>
	<u>FINAN 450 - Principles of Finance (3)</u>
Mathematics/Statistics (6-12 credit hours)	Mathematics/Statistics (9 credit hours)
MATH 100 - College Algebra (3)	MATH 100 - College Algebra (3)
MATH 205 - General Calculus and Linear Algebra (3)	MATH 205 - General Calculus and Linear Algebra (3)
STAT 325 - Introduction to Statistics (3)	
or	
STAT 350 - Business and Economic Statistics I (3)	STAT 350 - Business and Economic Statistics I (3)
and	
STAT 351 - Business and Economic Statistics II (3)	
Natural Sciences (8 credit hours)	Natural Sciences (8 credit hours)
Select a combination of 2 courses for a total of 8 credit hours.	Select a combination of 2 courses for a total of 8 credit hours.
CHM 110 - General Chemistry Credits: (3)	CHM 110 - General Chemistry (3)
and	and
CHM 111 - General Chemistry Laboratory (1)	CHM 111 - General Chemistry Laboratory (1)
BIOL 198 - Principles of Biology (4)	BIOL 198 - Principles of Biology (4)
PHYS 113 - General Physics I (4)	PHYS 113 - General Physics I (4)
Social Sciences/Humanities (9 credit hours)	Social Sciences/Humanities (9 credit hours)
PSYCH 110 - General Psychology (3)	PSYCH 110 - General Psychology (3)
or	or
SOCIO 211 - Introduction to Sociology (3)	SOCIO 211 - Introduction to Sociology (3)
PHIL 110 - Introduction to Formal Logic (3)	PHIL 110 - Introduction to Formal Logic (3)
or	or
PHIL 112 - Causal and Statistical Reasoning (3)	PHIL 112 - Causal and Statistical Reasoning (3)
POLSC 325 - United States Politics (3)	POLSC 325 - United States Politics (3)
Specialty in Pre-Law (15-32 credit hours)	Specialty in Pre-Law (15-32 credit hours)
With the guidance of your pre-law advisor, select a combination of Specialty courses combined with free electives.	With the guidance of your pre-law advisor, select a combination of Specialty courses combined with free electives.
Unrestricted electives as needed to meet 127 credit hours	Unrestricted electives as needed to meet 127 credit hours
Total credit hours required for graduation (127)	Total credit hours required for graduation (127)

RATIONALE:

The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490). A new capstone course on data analysis and optimization (AGEC501) is added, and the statistics requirement is changed from STAT325 to STAT350, given the course content. Another change is to enhance consistency across the options while strengthening the overall curriculum by requiring that all students in this degree program take a finance course (AGEC513 or FINAN450).

IMPACT:

The Department Head of Statistics (Jim Neill) was contacted; he responded that the department could accommodate by adding an additional section during fall term. We agreed on October 17 to proceed with this understanding and that the Department of Agricultural Economics will advise their students to enroll in STAT 350 as much as possible in the fall. The Department Head of Finance (Eric Higgins) was contacted and responded that the department is fine with the changes.

EFFECTIVE DATE: Fall 2012

**B.S. in Agriculture: Agriculture Economics Major
Quantitative Option**

<p>Agricultural Economics (45 credit hours)</p> <p>AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)</p> <p>AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p>AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)</p> <p>AGEC 490 - Computer Applications in Agricultural Economics and Agribusiness (2)</p> <p>AGEC 500 - Production Economics (3)</p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>Agricultural Economics Electives (15 credit hours)</p> <p>Include at least two numbered 598 and above</p> <p>AGEC 308 - Farm and Ranch Management (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) [discontinued Fall 2012]</p> <p>AGEC 420 - Commodity Futures (3)</p>	<p>Agricultural Economics (<u>18</u> credit hours)</p> <p>AGEC 105 - Agricultural Economics and Agribusiness Orientation (1)</p> <p><u>AGEC 115 - Decision Tools for Agricultural Economics and Agribusiness (2)</u></p> <p>AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p><u>or</u> <u>AGEC 121 - Honors Agricultural Economics and Agribusiness (3)</u></p> <p>AGEC 315 - Contemporary Issues in Global Food and Agricultural Systems (3)</p> <p>AGEC 500 - Production Economics (3)</p> <p><u>AGEC 501 - Data Analysis and Optimization (3)</u></p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>Agricultural Economics Electives (15 credit hours)</p> <p>Include at least two numbered 598 and above</p> <p>AGEC 308 - Farm and Ranch Management (3)</p> <p>AGEC 318 - Food and Agribusiness Management (3)</p> <p>AGEC 410 - Agricultural Policy (3)</p> <p>AGEC 420 - Commodity Futures (3)</p>
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AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)	AGEC 460 - International Food and Agribusiness Study Tour (0-6) (Limit 3 credit hours)
AGEC 513 - Agricultural Finance (3)	AGEC 513 - Agricultural Finance (3)
AGEC 515 - Food and Agribusiness Marketing (3)	AGEC 515 - Food and Agribusiness Marketing (3)
AGEC 516 - Agricultural Law and Economics (3)	AGEC 516 - Agricultural Law and Economics (3)
AGEC 520 - Market Fundamentals and Futures/Options Trading (3)	AGEC 520 - Market Fundamentals and Futures/Options Trading (3)
AGEC 525 - Natural Resource and Environmental Economics Credits: (3)	AGEC 525 - Natural Resource and Environmental Economics (3)
AGEC 570 - Food Manufacturing, Distribution and Retailing Credits: (3)	AGEC 570 - Food Manufacturing, Distribution and Retailing (3)
AGEC 598 - Farm Management Strategies (3)	AGEC 598 - Farm Management Strategies (3)
AGEC 599 - Food and Agribusiness Management Strategies (3)	AGEC 599 - Food and Agribusiness Management Strategies (3)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)	AGEC 610 - Current Agriculture and Natural Resource Policy Issues (3)
AGEC 615 - Global Agricultural Development (3) [Effective Fall 2012]	AGEC 615 - Global Agricultural Development (3)
AGEC 623 - International Agricultural Trade (3)	AGEC 623 - International Agricultural Trade (3)
AGEC 632 - Agribusiness Logistics (3)	AGEC 632 - Agribusiness Logistics (3)
AGEC 680 - Risk Management (3)	AGEC 680 - Risk Management (3)
AGEC 710 - Comparative Food and Agriculture Systems (3)	AGEC 710 - Comparative Food and Agriculture Systems (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 631 - Principles of Transportation (3)	ECON 631 - Principles of Transportation (3)
GENAG 515 - Honors/Scholars Project (2)	GENAG 515 - Honors/Scholars Project (2)
Agricultural and Food Science Technology Restricted Electives (6 credit hours)	Agricultural and Food Science Technology Restricted Electives (6 credit hours)
AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)	AGRON 220 - Crop Science (4) or HORT 201 - Principles of Horticultural Science (4)
AGRON 305 - Soils (4)	AGRON 305 - Soils (4)
AGRON 330 - Weed Science (3)	AGRON 330 - Weed Science (3)
ASI 102 - Principles of Animal Science (3)	ASI 102 - Principles of Animal Science (3)
ASI 105 - Animal Sciences and Industry (1)	ASI 105 - Animal Sciences and Industry (1)

ASI 106 - Dairy and Poultry Science (1)	ASI 106 - Dairy and Poultry Science (1)
ASI 318 - Fundamentals of Nutrition (3)	ASI 318 - Fundamentals of Nutrition (3)
ASI 320 - Principles of Feeding (3)	ASI 320 - Principles of Feeding (3)
ATM 160 - Engineered Systems and Technology in Agriculture (3)	ATM 160 - Engineered Systems and Technology in Agriculture (3)
FDSCI 302 - Introduction to Food Science (3)	FDSCI 302 - Introduction to Food Science (3)
FDSCI 305 - Fundamentals of Food Processing (3)	FDSCI 305 - Fundamentals of Food Processing (3)
GRSC 101 - Introduction to Grain Science and Industry (3)	GRSC 101 - Introduction to Grain Science and Industry (3)
See department list for other courses.	See department list for other courses.
Communication (14 credit hours)	Communication (14 credit hours)
ENGL 100 - Expository Writing I (3)	ENGL 100 - Expository Writing I (3)
ENGL 200 - Expository Writing II (3)	ENGL 200 - Expository Writing II (3)
COMM 105 - Public Speaking IA (2)	COMM 105 - Public Speaking IA (2)
Communication elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language	Communication elective (3) Select from: English (above 200), Communication studies (above 300) or a modern language
AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)	AGCOM 400 - Agricultural Business Communications (3) or ENGL 516 - Written Communication for the Sciences (3)
Economics/Business (12 credit hours) ECON 110 - Principles of Macroeconomics (3)	Economics/Business (12 credit hours) ECON 110 - Principles of Macroeconomics (3)
ECON 510 - Intermediate Macroeconomics (3)	ECON 510 - Intermediate Macroeconomics (3)
ACCTG 231 - Accounting for Business Operations (3)	ACCTG 231 - Accounting for Business Operations (3)
ACCTG 241 - Accounting for Investing and Financing (3)	ACCTG 241 - Accounting for Investing and Financing (3)
	<u>Finance Overlay</u>
	<u>AGEC 513 - Agricultural Finance (3)</u> or <u>FINAN 450 - Principles of Finance (3)</u>
Mathematics/Statistics (25 credit hours)	Mathematics/Statistics (25 credit hours)
CIS 200 - Fundamentals of Software Design (4)	CIS 200 - Fundamentals of Software Design (4)
MATH 220 - Analytic Geometry and Calculus I (4)	MATH 220 - Analytic Geometry and Calculus I (4)
MATH 221 - Analytic Geometry and Calculus II (4)	MATH 221 - Analytic Geometry and Calculus II (4)
MATH 222 - Analytic Geometry and Calculus III (4)	MATH 222 - Analytic Geometry and Calculus III (4)

MATH 551 - Applied Matrix Theory (3)	MATH 551 - Applied Matrix Theory (3)
STAT 350 - Business and Economic Statistics I (3)	STAT 350 - Business and Economic Statistics I (3)
and	and
STAT 351 - Business and Economic Statistics II (3)	STAT 351 - Business and Economic Statistics II (3)
or	or
STAT 510 - Introductory Probability and Statistics I (3)	STAT 510 - Introductory Probability and Statistics I (3)
and	and
STAT 511- Introductory Probability and Statistics II (3)	STAT 511- Introductory Probability and Statistics II (3)
Natural Sciences (8 credit hours)	Natural Sciences (8 credit hours)
Select a combination of 2 courses for a total of 8 credit hours.	Select a combination of 2 courses for a total of 8 credit hours.
CHM 110 - General Chemistry (3)	CHM 110 - General Chemistry (3)
and	and
CHM 111 - General Chemistry Laboratory (1)	CHM 111 - General Chemistry Laboratory (1)
BIOL 198 - Principles of Biology (4)	BIOL 198 - Principles of Biology (4)
PHYS 113 - General Physics I (4)	PHYS 113 - General Physics I (4)
Quantitative Electives (9 credit hours)	Quantitative Electives (<u>6</u> credit hours)
AGEC 605 - Price Analysis and Forecasting (3)	AGEC 605 - Price Analysis and Forecasting (3)
AGEC 712 - Optimization Techniques for Agricultural Economics (3)	AGEC 712 - Optimization Techniques for Agricultural Economics (3)
ECON 630 - Introduction to Econometrics (3)	ECON 630 - Introduction to Econometrics (3)
ECON 735 - Mathematical Economics (3)	ECON 735 - Mathematical Economics (3)
MATH 240 - Elementary Differential Equations (4)	MATH 240 - Elementary Differential Equations (4)
MATH 312 - Finite Applications of Mathematics (3)	MATH 312 - Finite Applications of Mathematics (3)
MATH 540 - Advanced Ordinary Differential Equations (3)	MATH 540 - Advanced Ordinary Differential Equations (3)
MATH 670 - Mathematical Modeling (3)	MATH 670 - Mathematical Modeling (3)
MATH 755 - Dynamic Modeling Process (3)	MATH 755 - Dynamic Modeling Process (3)
MANGT 421 - Introduction to Operations Management (3)	MANGT 421 - Introduction to Operations Management (3)
MANGT 521 - Quantitative Management (3)	MANGT 521 - Quantitative Management (3)
IMSE 541 - Statistical Quality Control (3)	IMSE 541 - Statistical Quality Control (3)
IMSE 560 - Introduction to Operations Research I (3)	IMSE 560 - Introduction to Operations Research I (3)
STAT 410 - Probabilistic Systems Modeling (3)	STAT 410 - Probabilistic Systems Modeling (3)
STAT 704 - Analysis of Variance (2)	STAT 704 - Analysis of Variance (2)
STAT 705 - Regression and Correlation Analyses (2)	STAT 705 - Regression and Correlation Analyses (2)

STAT 706 - Basic Elements of Statistical Theory (3)	STAT 706 - Basic Elements of Statistical Theory (3)
MKTG 642 - Marketing Research (3)	MKTG 642 - Marketing Research (3)
Social Sciences/Humanities (12 credit hours)	Social Sciences/Humanities (12 credit hours)
PHIL 130	PHIL 130
or	or
PHIL 135	PHIL 135
PSYCH 110 - General Psychology (3)	PSYCH 110 - General Psychology (3)
or	or
SOCIO 211 - Introduction to Sociology (3)	SOCIO 211 - Introduction to Sociology (3)
Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies	Social Science elective (3) Select from Psychology, Sociology, Political Science, Anthropology, History, Geography, Women's Studies or American Ethnic Studies
or	or
FSHS 350 - Family Relationships and Gender Roles (3)	FSHS 350 - Family Relationships and Gender Roles (3)
Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language	Humanities elective (3) Select from History, Music, Art, English (above 210), Philosophy, Theatre, Dance, Modern Language
or	or
ARCH 301 - Appreciation of Architecture (3)	ARCH 301 - Appreciation of Architecture (3)
Unrestricted electives as needed to meet 127 credit hours	Unrestricted electives as needed to meet 127 credit hours
Total credit hours required for graduation (127)	Total credit hours required for graduation (127)

RATIONALE: The curriculum is revised to provide enhanced opportunities for students to acquire strong quantitative reasoning and analytical skills, which are increasingly called for by their employers. To provide foundation for these skills earlier in the curriculum, a new required course in decision tools (AGEC115) replaces the previously required course in computer applications (AGEC490), and a new capstone course on data analysis and optimization (AGEC501) is added. Another change is to enhance consistency across the options while strengthening the overall curriculum by requiring that all students in this degree program take a finance course (AGEC513 or FINAN450).

IMPACT: The Department Head of Finance (Eric Higgins) was contacted and responded that the department is fine with the changes.

EFFECTIVE DATE: Fall 2012

Animal Sciences and Industry

B.S. in Agriculture: Animal Sciences & Industry Major: Animal Products Option

FROM: TO:

GENERAL COURSES				GENERAL COURSES			
GENAG	101	Ag Orientn –OR-	1	GENAG	101	Ag Orientn –OR-	1
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 – AGCOM 400				AGCOM – AGCOM 400			
AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712				AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712			
ASI – ASI 660				ASI – ASI 660			
ATM – ATM 160 to 329, 571, 572 to 661				ATM – ATM 160 to 329, 571, 572 to 661			
AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790				AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790			
ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767				ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767			
FDSCI – FDSCI 660				FDSCI – FDSCI 660			
GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785				GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785			
HORT – HORT 201 to 525, 535 to 625, 706 to 751				HORT – HORT 201 to 525, 535 to 625, 706 to 751			
FOR – FOR 210 to 311, 330 to 375, 510, 520, 643				FOR – FOR 210 to 311, 330 to 375, 510, 520, 643			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – PLPTH 500 to 745				PLPTH – PLPTH 500 to 745			
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			
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,				Modern Language – Any course in ARAB, CHINE,			
				GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN,			

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	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
BUSINESS & ECONOMICS	BUSINESS & ECONOMICS
ACCTG 231 Accounting Bus Ops 3 (Select 4 other courses, min. 12 hours) AGEC - AGEC 202 to 420, 445 to 799 ACCTG – ACCTG 241 to 799 FINAN – Any course FSHS – FSHS 105 MANGT – Any course MKTG – Any course	ACCTG 231 Accounting Bus Ops 3 (Select 4 other courses, min. 12 hours) AGEC - AGEC 202 to 420, 445 to 799 ACCTG – ACCTG 241 to 799 FINAN – Any course FSHS – FSHS 105 MANGT – Any course MKTG – Any course
MATH/STATISTICS/COMPUTERS (Select 1)	MATH/STATISTICS/COMPUTERS (Select 1)
STAT 325 Intro Statistics 3 STAT 340 Biometrics I 3 STAT 350 Business Econ Statistics 3 (Minimum 3 hours)	STAT 325 Intro Statistics 3 STAT 340 Biometrics I 3 STAT 350 Business Econ Statistics 3 (Minimum 3 hours)
ASI – ASI 490 CIS – CIS 101 to 104 MATH – MATH 150, 205, 210, 211, 220, 221, 222 STAT – STAT 341, 351	ASI – ASI 490 CIS – CIS 101 to 104 MATH – MATH 150, 205, 210, 211, 220, 221, 222 STAT – STAT 341, 351
COMMUNICATIONS (Minimum 3 hours)	COMMUNICATIONS (Minimum 3 hours)
AGCOM – AGCOM 310, 400, 410, 590 & 610 COMM – COMM 311, 321, 322, 326 ENGL – ENGL 300, 516 GENAG – GENAG 450 MC – MC 110, 111, 112, 120, & 180	AGCOM – AGCOM 310, 400, 410, 590 & 610 COMM – COMM 311, 321, 322, 326 ENGL – ENGL 300, 516 GENAG – GENAG 450 MC – MC 110, 111, 112, 120, & 180
ANIMAL & FOOD SCIENCE	ANIMAL & FOOD SCIENCE
ASI 102 Prin Animal Science 3 ASI 105 Animal Sciences & Ind 1 ASI 106 Dairy/Poultry Lab 1 ASI 318 Fund. of Nutrition 3 ASI 580 ASI Seminar 1 FDSCI 302 Intro Food Science 3 FDSCI 690 Principles of HACCP 2 FDSCI 607 Food Microbiology 4 FDSCI 695 QA of Food Products 3 (Select 1 course) ASI 350 Meat Science 3 ASI 405 Fund Milk Processing 3 (Select 1 course) ASI 515 Beef Science 3 ASI 524 Sheep/Meat Goat Science 3 ASI 535 Swine Science 3 ASI 621 Dairy Cattle Management 3 ASI 645 Poultry Management 3 (Select 18 hours) ASI 315 Livestock & Meat Eval 3 ASI 361 Meat Animal Processing 2 ASI 370 Prin. Meat Evaluation 2 ASI 495 Adv. Meat Evaluation 2 ASI 500 Genetics 3 ASI 510 Animal Breeding 3 ASI 510 Animal Breeding 3	ASI 102 Prin Animal Science 3 ASI 105 Animal Sciences & Ind 1 ASI 106 Dairy/Poultry Lab 1 ASI 318 Fund. of Nutrition 3 ASI 580 ASI Seminar 1 FDSCI 302 Intro Food Science 3 FDSCI 690 Principles of HACCP 2 FDSCI 607 Food Microbiology 4 FDSCI 695 QA of Food Products 3 (Select 1 course) ASI 350 Meat Science 3 ASI 405 Fund Milk Processing 3 (Select 1 course) ASI 515 Beef Science 3 ASI 524 Sheep/Meat Goat Science 3 ASI 535 Swine Science 3 ASI 621 Dairy Cattle Management 3 ASI 645 Poultry Management 3 (Select 18 hours) ASI 315 Livestock & Meat Eval 3 ASI 361 Meat Animal Processing 2 ASI 370 Prin. Meat Evaluation 2 ASI 495 Adv. Meat Evaluation 2 ASI 500 Genetics 3 ASI 510 Animal Breeding 3 ASI 533 Anatomy & Physiology 4

ASI	533	Anatomy & Physiology	4	<u>ASI</u>	<u>608</u>	<u>Dairy Food Processing Tech</u>	<u>3</u>
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	<u>ASI</u>	<u>658</u>	<u>Animal Growth & Development</u>	<u>3</u>
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

RATIONALE: We are adding 2 ASI classes to our restricted ASI course list under “minimum 9 hours”. ASI 658 was not included in our original list as we did not have a faculty member to teach the course, we have since hired a faculty member to cover the course and now would like to add it into our curriculum. ASI 608 should have been included in the ASI restricted electives list on all of our options, but was inadvertently left off when we revised our 2011 curriculum.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2012

B.S. in Agriculture: Animal Sciences & Industry Major:
Bioscience/Biotechnology Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
GENAG	101	Ag Orientation –OR-	1	GENAG	101	Ag 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 – AGCOM 400				AGCOM – AGCOM 400			
AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712				AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712			
ASI – ASI 660				ASI – ASI 660			
ATM – ATM 160 to 329, 571, 572 to 661				ATM – ATM 160 to 329, 571, 572 to 661			
AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790				AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790			
FDSCI – FDSCI 302, 305, 660, 690				FDSCI – FDSCI 302, 305, 660, 690			
ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767				ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767			
GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785				GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785			
HORT – HORT 201 to 525, 535 to 625, 706 to 751				HORT – HORT 201 to 525, 535 to 625, 706 to 751			
FOR – FOR 210 to 311, 330 to 375, 510, 520, 643				FOR – FOR 210 to 311, 330 to 375, 510, 520, 643			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – PLPTH 500 to 745				PLPTH – PLPTH 500 to 745			
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			

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	265	Inorganic & Organic Biochem	5	BIOCH	265	Inorganic & Organic Biochem	5
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	600	Applied Animal Biotechnology	2*	ASI	600	Applied Animal Biotechnology	2*
PLPTH	610	Biotechnology	3*	ASI	658	Animal Growth & Development	3
BIOL	450	Modern Genetics	3	PLPTH	610	Biotechnology	3*
BIOL	510	Developmental Biology	3	BIOL	450	Modern Genetics	3
BIOL	511	Developmental Biology Lab	1	BIOL	510	Developmental Biology	3
BIOL	541	Cell Biology	3	BIOL	511	Developmental Biology Lab	1
BIOL	625	Animal Parasitology	4	BIOL	541	Cell Biology	3
BIOL	671	Immunology	4	BIOL	625	Animal Parasitology	4
BIOL	671	Immunology Lab	2	BIOL	671	Immunology	4
ENTOM	305	Animal Health Entomology	2	BIOL	671	Immunology Lab	2
ENTOM	306	Animal Health Entomology Lab	1	ENTOM	305	Animal Health Entomology	2
PLPTH	611	Ag Biotechnology Lab	3	ENTOM	306	Animal Health Entomology Lab	1
PLPTH	612	Genomics Applications	3	PLPTH	611	Ag Biotechnology Lab	3
PLPTH	613	Bioinformatics Apps	2	PLPTH	612	Genomics Applications	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 - AGEC 202 to 420, 445 to 799				AGEC - AGEC 202 to 420, 445 to 799			
ACCTG – ACCTG 231 to 799				ACCTG – ACCTG 231 to 799			
FINAN – Any course				FINAN – Any course			
FSHS – FSHS 105				FSHS – FSHS 105			
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				PHYS – PHYS 113, 114			
COMMUNICATIONS				COMMUNICATIONS			
(Minimum 3 hours)				(Minimum 3 hours)			
AGCOM – AGCOM 310, 400, 410, 590 & 610				AGCOM – AGCOM 310, 400, 410, 590 & 610			
COMM – COMM 311, 321, 322, 326				COMM – COMM 311, 321, 322, 326			
ENGL – ENGL 300, 516				ENGL – ENGL 300, 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,				Modern Language – Any course in ARAB, CHINE, FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN,			

SPAN, URDU				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		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	4	ASI	400	Farm Animal Reproduction	4
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
(Select 2 courses)				(Select 2 courses)			
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	595	Contemp Issues Anml Ag		ASI	595	Contemp Issues Anml Ag	
ASI	601	Physiology of Lactation	3	ASI	601	Physiology of Lactation	3
ASI	640	Poultry Product Tech	3	ASI	608	Dairy Foods Processing & Technol (3)	
ASI	655	Behavior Domestic Animals	3	ASI	640	Poultry Product Tech	3
ASI	695	Equine Exercise Physiology	3	ASI	655	Behavior Domestic Animals	3
FDSCI	607	Food Microbiology	4	ASI	695	Equine Exercise Physiology	3
(Select 1 course)				FDSCI	607	Food Microbiology	4
ASI	515	Beef Science	3	(Select 1 course)			
ASI	521	Horse Science	3	ASI	515	Beef Science	3
ASI	524	Sheep/Meat Goat Science	3	ASI	521	Horse Science	3
ASI	535	Swine Science	3	ASI	524	Sheep/Meat Goat Science	3
ASI	621	Dairy Cattle Management	3	ASI	535	Swine Science	3
ASI	645	Poultry Management	3	ASI	621	Dairy Cattle Management	3
				ASI	645	Poultry Management	3

RATIONALE:

We are adding 2 ASI classes to our restricted ASI course list under “minimum 9 hours”. ASI 658 was not included in our original list as we did not have a faculty member to teach the course, we have since hired a faculty member to cover the course and now would like to add it into our curriculum. ASI 608 should have been included in the ASI restricted electives list on all of our options, but was inadvertently left off when we revised our 2011 curriculum.

IMPACT:

No impact on other departments.

EFFECTIVE DATE:

Fall 2012

B.S. in Agriculture: Animal Sciences & Industry Major:
Business Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
GENAG	101	Ag Orientation –OR-	1	GENAG	101	Ag 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 AGECE)				(1 hour courses cannot be applied, cannot use courses from AGECE)			
AGCOM – AGCOM 400				AGCOM – AGCOM 400			
AGEC – AGECE 460				AGEC – AGECE 460			
ASI – ASI 660				ASI – ASI 660			
ATM – ATM 160 to 329, 571, 572 to 661				ATM – ATM 160 to 329, 571, 572 to 661			
AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790				AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790			
FDSCI – FDSCI 302, 660, 690				FDSCI – FDSCI 302, 660, 690			
ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767				ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767			
GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785				GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785			
HORT – HORT 201 to 525, 535 to 625, 706 to 751				HORT – HORT 201 to 525, 535 to 625, 706 to 751			
FOR – FOR 210 to 311, 330 to 375, 510, 520, 643				FOR – FOR 210 to 311, 330 to 375, 510, 520, 643			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – PLPTH 500 to 745				PLPTH – PLPTH 500 to 745			
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,				Modern Language – Any course in ARAB, CHINE,			

FREN, GRM, ITAL, JAPAN, LATIN, PORT, RUSSN, SPAN, URDU	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 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
(plus 6 courses, min. 18 hours)	(plus 6 courses, min. 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
FINAN – Any course	FINAN – Any course
FSHS – FSHS 105	FSHS – FSHS 105
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
(Minimum 3 hours)	(Minimum 3 hours)
AGCOM – AGCOM 310, 400, 410, 590, 610, 712	AGCOM – AGCOM 310, 400, 410, 590, 610, 712
COMM – COMM 311, 321, 322, 326	COMM – COMM 311, 321, 322, 326
ENGL – ENGL 300, 516	ENGL – ENGL 300, 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 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 4	ASI 400 Farm Animal Reproduction 4
ASI 580 ASI Seminar 1	ASI 580 ASI Seminar 1
(Select 2 courses)	(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)	(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 (Minimum 9 hours)	3	ASI	645	Poultry Management (Minimum 9 hours)	3
ASI	315	Livestock & Meat Eval	3	ASI	315	Livestock & Meat Eval	3
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	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	610	Processed Meat Ops	2	<u>ASI</u>	<u>608</u>	<u>Dairy Foods Process & Technol</u>	<u>3</u>
ASI	620	Lvstk Prod & Mngmt	2	ASI	610	Processed Meat Ops	2
ASI	650	Id Data Management	2	ASI	620	Lvstk Prod & Mngmt	2
ASI	655	Behavior Domst Anml	3	ASI	650	Id Data Management	2
ASI	675-679	Non-Ruminant Modules	1-4	ASI	655	Behavior Domst Anml	3
ASI	680-685	Ruminant Modules	1-6	<u>ASI</u>	<u>658</u>	<u>Animal Growth & Development</u>	<u>3</u>
ASI	695	Equine Exercise Physiol	3	ASI	675-679	Non-Ruminant Modules	1-4
ASI	710	Phys Repro Farm Anml	3	ASI	680-685	Ruminant Modules	1-6
ASI	777	Meat Technology	3	ASI	695	Equine Exercise Physiol	3
				ASI	710	Phys Repro Farm Anml	3
				ASI	777	Meat Technology	3

RATIONALE:

We are adding 2 ASI classes to our restricted ASI course list under “minimum 9 hours”. ASI 658 was not included in our original list as we did not have a faculty member to teach the course, we have since hired a faculty member to cover the course and now would like to add it into our curriculum. ASI 608 should have been included in the ASI restricted electives list on all of our options, but was inadvertently left off when we revised our 2011 curriculum.

IMPACT:

No impact on other departments.

EFFECTIVE DATE:

Fall 2012

B.S. in Agriculture: Animal Sciences & Industry Major:
Communications Option

FROM:

TO:

GENERAL COURSES				GENERAL COURSES			
GENAG	101	Ag Orientation –OR-	1	GENAG	101	Ag 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			
(Select 4 courses - 2 other AG Depts. min. 11 hours)				(Select 4 courses - 2 other AG Depts. min. 11 hours)			
(1 hour courses cannot be applied, cannot use courses from AGCOM)				(1 hour courses cannot be applied, cannot use courses from AGCOM)			
ASI – ASI 660				ASI – ASI 660			
ATM – ATM 160 to 329, 571, 572 to 661				ATM – ATM 160 to 329, 571, 572 to 661			
AGEC – AGECE 120 to 420, 460,500 to 525, 590 to 632, 712				AGEC – AGECE 120 to 420, 460,500 to 525, 590 to 632, 712			
AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790				AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790			
FDSCI – FDSCI 302, 305, 660, 690				FDSCI – FDSCI 302, 305, 660, 690			
ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767				ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767			
GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785				GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785			
HORT – HORT 201 to 525, 535 to 625, 706 to 751				HORT – HORT 201 to 525, 535 to 625, 706 to 751			
FOR – FOR 210 to 311, 330 to 375, 510, 520, 643				FOR – FOR 210 to 311, 330 to 375, 510, 520, 643			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – PLPTH 500 to 745				PLPTH – PLPTH 500 to 745			
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			
BUSINESS & ECONOMICS				BUSINESS & ECONOMICS			
ACCTG	231	Acctg for Bus Ops	3	ACCTG	231	Acctg for Bus Ops	3

(plus 1 course, minimum 3 hours)				(plus 1 course, minimum 3 hours)			
AGEC - AGEC 202 to 420, 445 to 799				AGEC - AGEC 202 to 420, 445 to 799			
ACCTG – ACCTG 241 to 799				ACCTG – ACCTG 241 to 799			
FINAN – Any course				FINAN – Any course			
FSHS – FSHS 105				FSHS – FSHS 105			
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			
MC	110	Mass Comm in Society	3	MC	110	Mass Comm in Society	3
MC	200	News & Feature Writing	3	MC	200	News & Feature Writing	3
MC	241	Editing	3	MC	241	Editing	3
MC	303	Adv News & Feature Writing	3	MC	303	Adv News & Feature Writing	3
MC	341	News Design	3	MC	341	News Design	3
MC	466	Law of Mass Communications	3	MC	466	Law of Mass Communications	3
(Select 1)				(Select 1)			
MC	111	Journalism in a Free Society	3	MC	111	Journalism in a Free Society	3
MC	112	Web Comm in Society	3	MC	112	Web Comm in Society	3
MC	120	Principles of Advertising	3	MC	120	Principles of Advertising	3
MC	180	Fund of Public Relations	3	MC	180	Fund of Public Relations	3
(Minimum 3 hours)				(Minimum 3 hours)			
MC – MC 400 to 799				MC – MC 400 to 799			
(Minimum 3 hours)				(Minimum 3 hours)			
AGCOM – Any Course				AGCOM – Any Course			
COMM – Any Course				COMM – Any Course			
MC – Any Course				MC – Any Course			
ANIMAL SCIENCE				ANIMAL SCIENCE			
ASI	102	Principles of Animal Science	3	ASI	102	Principles of Animal Science	3
ASI	318	Fundamentals of Nutrition	3	ASI	318	Fundamentals of Nutrition	3
ASI	400	Farm Animal Reproduction	4	ASI	400	Farm Animal Reproduction	4
ASI	500	Genetics	3	ASI	500	Genetics	3
ASI	533	Anatomy & Physiology	4	ASI	533	Anatomy & Physiology	4
ASI	580	ASI Seminar	1	ASI	580	ASI Seminar	1
(Select 1 course)				(Select 1 course)			
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	320	Principles of Feeding	3	ASI	320	Principles of Feeding	3
ASI	504	Equine Reproductive Mngt	3	ASI	504	Equine Reproductive Mngt	3
ASI	510	Animal Breeding Principles	3	ASI	510	Animal Breeding Principles	3
ASI	512	Bovine Reproductive Tech	2	ASI	512	Bovine Reproductive Tech	2
ASI	540	Principles of Animal Disease	3	ASI	540	Principles of Animal Disease	3
ASI	595	Contemporary Issues in ASI	3	ASI	595	Contemporary Issues in ASI	3

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	610	Processed Meat Operations	2	<u>ASI</u>	<u>608</u>	<u>Dairy Foods Process & Technol</u>	<u>3</u>
ASI	620	Livestock Production Mngt	2	ASI	610	Processed Meat Operations	2
ASI	650	I.D. Data Management	2	ASI	620	Livestock Production Mngt	2
ASI	655	Behavior of Domestic Animals	3	ASI	650	I.D. Data Management	2
ASI	675-679	Non-Ruminant Ntrtn Modules	1-4	ASI	655	Behavior of Domestic Animals	3
ASI	680-685	Ruminant Nutrition Modules	1-6	<u>ASI</u>	<u>658</u>	<u>Animal Growth & Development</u>	<u>3</u>
ASI	695	Equine Exercise Physiology	3	ASI	675-679	Non-Ruminant Ntrtn Modules	1-4
ASI	710	Phys Repro Farm Animals	3	ASI	680-685	Ruminant Nutrition Modules	1-6
ASI	777	Meat Technology	3	ASI	695	Equine Exercise Physiology	3
				ASI	710	Phys Repro Farm Animals	3
				ASI	777	Meat Technology	3

RATIONALE:

We are adding 2 ASI classes to our restricted ASI course list under “minimum 9 hours”. ASI 658 was not included in our original list as we did not have a faculty member to teach the course, we have since hired a faculty member to cover the course and now would like to add it into our curriculum. ASI 608 should have been included in the ASI restricted electives list on all of our options, but was inadvertently left off when we revised our 2011 curriculum.

IMPACT:

No impact on other departments.

EFFECTIVE DATE:

Fall 2012

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

FROM:				TO:			
GENERAL COURSES				GENERAL COURSES			
GENAG	101	Ag Orientation –OR-	1	GENAG	101	Ag 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 – AGCOM 400				AGCOM – AGCOM 400			
AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712				AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712			
ASI – ASI 660				ASI – ASI 660			
ATM – ATM 160 to 329, 571, 572 to 661				ATM – ATM 160 to 329, 571, 572 to 661			
AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790				AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790			
FDSCI – FDSCI 302, 660, 690				FDSCI – FDSCI 302, 660, 690			
ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767				ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767			
GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785				GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785			
HORT – HORT 201 to 525, 535 to 625, 706 to 751				HORT – HORT 201 to 525, 535 to 625, 706 to 751			
FOR – FOR 210 to 311, 330 to 375, 510, 520, 643				FOR – FOR 210 to 311, 330 to 375, 510, 520, 643			
RRES – RRES 210 to 490, 521 to 705				RRES – RRES 210 to 490, 521 to 705			
PLPTH – PLPTH 500 to 745				PLPTH – PLPTH 500 to 745			
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	2	CHM	351	General Organic Chemistry Lab 2	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, 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			

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	
(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
FINAN – Any course	FINAN – Any course
FSHS – FSHS 105	FSHS – FSHS 105
MANGT – Any course	MANGT – Any course
MKTG – Any course	MKTG – Any course
PHYSICS/MATH/STATISTICS	
(Minimum 6 hours)	
MATH – MATH 150, 205, 210, 211, 220, 221, 222	MATH – MATH 150, 205, 210, 211, 220, 221, 222
PHYS – PHYS 113, 114	PHYS – PHYS 113, 114
STAT – STAT 325, 340, 350	STAT – STAT 325, 340, 350
COMMUNICATIONS	
(Minimum 3 hours)	
AGCOM – AGCOM 310, 400, 410	AGCOM – AGCOM 310, 400, 410
COMM – COMM 311, 321, 322, 326	COMM – COMM 311, 321, 322, 326
ENGL – ENGL 300, 516	ENGL – ENGL 300, 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	
ASI 102 Prin Animal Science 3	ASI 102 Prin Animal Science 3
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 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 320 Principles of Feeding 3	ASI 320 Principles of Feeding 3
ASI 400 Farm Animal Reproduction 4	ASI 400 Farm Animal Reproduction 4
ASI 500 Genetics 3	ASI 500 Genetics 3
ASI 580 ASI Seminar 1	ASI 580 ASI Seminar 1
(Select 1 course)	
ASI 350 Meat Science 3	ASI 350 Meat Science 3
ASI 405 Fund Milk Processing 3	ASI 405 Fund Milk Processing 3
ASI 361 Meat Animal Processing 2	ASI 361 Meat Animal Processing 2
ASI 601 Physiology of Lactation 3	ASI 601 Physiology of Lactation 3
ASI 640 Poultry Product Tech 3	ASI 640 Poultry Product Tech 3
ASI 695 Equine Exercise Physiology 3	ASI 695 Equine Exercise Physiology 3
FDSCI 305 Fund of Food Processing 3	FDSCI 305 Fund of Food Processing 3
(Select 2 courses)	
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
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

ASI	645	Poultry Management (Minimum 9 hours)	3				
ASI	315	Livestock & Meat Eval	3	ASI	315	Livestock & Meat Eval	3
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	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	610	Processed Meat Ops	2	ASI	608	<u>Dairy Foods Process & Technol</u>	3
ASI	620	Lvstk Prod & Mngmt	2	ASI	610	Processed Meat Ops	2
ASI	650	Id Data Management	2	ASI	620	Lvstk Prod & Mngmt	2
ASI	655	Behavior of Domestic Animals	3	ASI	650	Id Data Management	2
ASI	675-679	Non-Ruminant Modules	1-4	ASI	655	Behavior of Domestic Animals	3
ASI	680-685	Ruminant Modules	1-6	ASI	658	<u>Animal Growth & Development</u>	3
ASI	710	Phys Repro Farm Anml	3	ASI	675-679	Non-Ruminant Modules	1-4
ASI	777	Meat Technology	3	ASI	680-685	Ruminant Modules	1-6
				ASI	710	Phys Repro Farm Anml	3
				ASI	777	Meat Technology	3

RATIONALE:

We are adding 2 ASI classes to our restricted ASI course list under “minimum 9 hours”. ASI 658 was not included in our original list as we did not have a faculty member to teach the course, we have since hired a faculty member to cover the course and now would like to add it into our curriculum. ASI 608 should have been included in the ASI restricted electives list on all of our options, but was inadvertently left off when we revised our 2011 curriculum.

IMPACT:

No impact on other departments.

EFFECTIVE DATE:

Fall 2012

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

FROM:	TO:
GENERAL COURSES	GENERAL COURSES
GENAG 101 Ag Orientation –OR- 1	GENAG 101 Ag 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 – AGCOM 400	AGCOM – AGCOM 400
AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712	AGEC – AGECE 120 to 420, 460, 500 to 525, 590 to 632, 712
ASI – ASI 660	ASI – ASI 660
ATM – ATM 160 to 329, 571, 572 to 661	ATM – ATM 160 to 329, 571, 572 to 661
AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790	AGRON – 220, 305, 330 to 385, 430, 501, 550, 630 to 660, 681 to 790
FDSCI – FDSCI 302, 660, 690	FDSCI – FDSCI 302, 660, 690
ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767	ENTOM – ENTOM 250 or 301, 300, 305, 312, 314 to 620, 692 to 767
GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785	GRSC – GRSC 100 to 120, 150, 305 to 510, 602 to 661, 710 to 737, 750 to 785
HORT – HORT 201 to 525, 535 to 625, 706 to 751	HORT – HORT 201 to 525, 535 to 625, 706 to 751
FOR – FOR 210 to 311, 330 to 375, 510, 520, 643	FOR – FOR 210 to 311, 330 to 375, 510, 520, 643
RRES – RRES 210 to 490, 521 to 705	RRES – RRES 210 to 490, 521 to 705
PLPTH – PLPTH 500 to 745	PLPTH – PLPTH 500 to 745
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 (Minimum 9 hours)	HUMANITIES/SOCIAL SCIENCE (Minimum 9 hours)
(Must be taken from more than one department) (Maximum 3 hours in performance courses)	(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
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,	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	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
BUSINESS & ECONOMICS (Select 1 course)	BUSINESS & ECONOMICS (Select 1 course)
ACCTG 231 Acctg for Bus Ops 3 AGEC 308 Farm Ranch Mngmt 3	ACCTG 231 Acctg for Bus Ops 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 ACCTG – ACCTG 241 to 799 ECON – ECON 500 to 799 FINAN – Any course FSHS – FSHS 105 MANGT – Any course MKTG – Any course	AGEC - AGECE 202 to 420, 445 to 799 ACCTG – ACCTG 241 to 799 ECON – ECON 500 to 799 FINAN – Any course FSHS – FSHS 105 MANGT – Any course MKTG – Any course
MATH/STATISTICS/COMPUTERS (Minimum 3 hours)	MATH/STATISTICS/COMPUTERS (Minimum 3 hours)
ASI – ASI 490 CIS – CIS 101, 102, 103, 104 MATH – MATH 150, 205, 210, 211, 220, 221, 222 STAT – STAT 320, 325, 330, 340, 350	ASI – ASI 490 CIS – CIS 101, 102, 103, 104 MATH – MATH 150, 205, 210, 211, 220, 221, 222 STAT – STAT 320, 325, 330, 340, 350
COMMUNICATIONS (Minimum 3 hours)	COMMUNICATIONS (Minimum 3 hours)
AGCOM – AGCOM 310, 400, 410, 590, 610, 712 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	AGCOM – AGCOM 310, 400, 410, 590, 610, 712 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
ANIMAL SCIENCE	ANIMAL SCIENCE
ASI 102 Prin Animal Science 3 ASI 318 Fund. of Nutrition 3 ASI 320 Principles of Feeding 3 ASI 400 Farm Animal Reproduction 4 ASI 500 Genetics 3 ASI 510 Animal Breeding Pr. 3 ASI 533 Anatomy & Physiology 4 ASI 580 ASI Seminar 1	ASI 102 Prin Animal Science 3 ASI 318 Fund. of Nutrition 3 ASI 320 Principles of Feeding 3 ASI 400 Farm Animal Reproduction 4 ASI 500 Genetics 3 ASI 510 Animal Breeding Pr. 3 ASI 533 Anatomy & Physiology 4 ASI 580 ASI Seminar 1
(Select 2 courses)	(Select 2 courses)
ASI 105 Animal Sciences & Ind Lab 1 ASI 106 Dairy/Poultry Lab 1 ASI 107 Companion Anml/Horse Lab 1	ASI 105 Animal Sciences & Ind Lab 1 ASI 106 Dairy/Poultry Lab 1 ASI 107 Companion Anml/Horse Lab 1
(Select 1 course)	(Select 1 course)
ASI 350 Meat Science 3 ASI 361 Meat Animal Processing 2 ASI 405 Fund Milk Processing 3 ASI 640 Poultry Product Tech 3 FDSCI 305 Fund of Food Processing 3	ASI 350 Meat Science 3 ASI 361 Meat Animal Processing 2 ASI 405 Fund Milk Processing 3 ASI 640 Poultry Product Tech 3 FDSCI 305 Fund of Food Processing 3
(Select 2 courses)	(Select 2 courses)
ASI 515 Beef Science 3 ASI 520 Companion/Lab Anml Mngt 3	ASI 515 Beef Science 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	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	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	610	Processed Meat Ops	2	ASI	608	Dairy Foods Process & Technol	3
ASI	620	Lvstk Prod & Mngmt	2	ASI	610	Processed Meat Ops	2
ASI	650	Id Data Management	2	ASI	620	Lvstk Prod & Mngmt	2
ASI	655	Behavior of Domestic Animals	3	ASI	650	Id Data Management	2
ASI	675-679	Non-Ruminant Modules	1-4	ASI	655	Behavior of Domestic Animals	3
ASI	680-685	Ruminant Modules	1-6	ASI	658	Animal Growth & Development	3
ASI	695	Equine Exercise Physiol	3	ASI	675-679	Non-Ruminant Modules	1-4
ASI	710	Phys Repro Farm Anml	3	ASI	680-685	Ruminant Modules	1-6
ASI	777	Meat Technology	3	ASI	695	Equine Exercise Physiol	3
				ASI	710	Phys Repro Farm Anml	3
				ASI	777	Meat Technology	3

RATIONALE: We are adding 2 ASI classes to our restricted course lists. ASI 658 was originally included in our restricted list of bioscience/biotechnology courses, however we did not have a faculty member to teach the course so we had it removed, we have since hired a faculty member to cover the course and now would like to add it back into our curriculum. ASI 608 should have been included in the ASI restricted electives list under “select 2 courses”, but was inadvertently left off when we revised our 2011 curriculum.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2012

Food Science & Industry

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

FROM:

TO:

<p>GENERAL COURSES (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 communications course (2-3)</p> <p>SOCIAL SCIENCES & HUMANITIES (12 credit hours) ECON 110 - Principles of Macroeconomics (3) 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 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 Credits: (5) CHM 210 - Chemistry I (4) CHM 230 - Chemistry II (4)</p> <p>PROFESSIONAL ELECTIVES (25 credit hours) Must have 3 processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Other professional electives can be substituted as appropriate.</p>	<p>GENERAL COURSES (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 communications course (2-3)</p> <p>SOCIAL SCIENCES & HUMANITIES (12 credit hours) ECON 110 - Principles of Macroeconomics (3) 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 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>PROFESSIONAL ELECTIVES (25 credit hours) Must have 3 processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Other professional electives can be substituted as appropriate.</p>
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Food Science Electives

AGRON 335 - Environmental Quality (3)
ASI 303 - History and Attitudes of Animal Use (3)
ASI 310 - Poultry and Poultry Product Evaluation (2)
ASI 315 - Livestock and Meat Evaluation (3)
ASI 490 - Microcomputer Applications in Animal Sciences and Industry (3)
ASI 500 - Genetics (3)
ASI 533 - Anatomy and Physiology (4)
ASI 595 - Contemporary Issues in Animal Science and Agriculture (3)
ASI 640 - Poultry Products Technology (3)
ASI 645 - Poultry Management (3)

FDSCI 430 - Food Products Evaluation (3)
FDSCI 603 - Food Science Internship (1-6)
FDSCI 630 - Food Science Problems (Variable)
FDSCI 713 - Rapid Methods and Automation in Microbiology (2)

FDSCI 791 - Advanced Application of HACCP Principles (3)

~~GNHE 310 - Human Needs (3)~~

~~GRSC 602 - Cereal Science (3)~~

GRSC 651 - Food and Feed Product Protection (4)
GRSC 661 - Qualities of Food and Feed Ingredients (3)

~~HN 132 - Basic Nutrition (3)~~

HN 301 - Food Trends, Legislation, and Regulation (3)

HN 352 - Personal Wellness (3)

~~HN 413 - Science of Food (4)~~

HN 701 - Sensory Analysis (3)

STAT 341 - Biometrics II (3)

Communications

Any foreign language

Completion of **ASI 495** Advanced Meat Evaluation

AGCOM 400 - Agricultural Business Communications (3)

AGCOM 590 - New Media Technology (3)

AGCOM 610 - Crisis Communication (3)

COMM 311 - Business and Professional Speaking

Food Science Electives

AGEC 120 – Ag Econ & Agribusiness (3)

ECON 120- Prin Micro Economics (3)

AGRON 335 - Environmental Quality (3)

ASI 303 - History and Attitudes of Animal Use (3)

ASI 310 - Poultry and Poultry Product Evaluation (2)

ASI 315 - Livestock and Meat Evaluation (3)

ASI 490 - Microcomputer Applications in Animal Sciences and Industry (3)

ASI 500 - Genetics (3)

ASI 533 - Anatomy and Physiology (4)

ASI 595 - Contemporary Issues in Animal Science and Agriculture (3)

ASI 640 - Poultry Products Technology (3)

ASI 645 - Poultry Management (3)

ASI 660 – International Experience in ASI (3)

BIOL 330 – Public Health Biology (3)

FDSCI 430 - Food Products Evaluation (3)

FDSCI 603 - Food Science Internship (1-6)

FDSCI 630 - Food Science Problems (Variable)

FDSCI 713 - Rapid Methods and Automation in Microbiology (2)

FDSCI 731 – Food Prot and Def:Essential Concepts (2)

FDSCI 791 - Advanced Application of HACCP Principles (3)

GENAG 711 – Occupational & Ag Health (3)

GENAG 721 – Occupational & Ag Safety & Health (3)

GRSC 651 - Food and Feed Product Protection (4)

GRSC 661 - Qualities of Food and Feed Ingredients (3)

HN 301 - Food Trends, Legislation, and 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)

PHYS 113 – General Physics I (4)

PHYS 114 – General Physics II (4)

STAT 341 - Biometrics II (3)

STAT 351 – Business & Econ Stat II (3)

Communications

Any foreign language

Completion of **ASI 495** Advanced Meat Evaluation

AGCOM 400 - Agricultural Business Communications (3)

AGCOM 590 - New Media Technology (3)

AGCOM 610 - Crisis Communication (3)

COMM 311 - Business and Professional Speaking (3)

<p>(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) GENAG 450 – Citizenship and Ethics in Agriculture (3)</p> <p>MKTG 542 – Professional Selling and Sales Management (3) MC 110 - Mass Communication in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) SOCWK 310 – Topics in Social Work (1-3)</p> <p>Technology Electives ASI 490 - Microcomputer Applications in Animal Sciences and Industry (3) ATM 160 - Engineered Systems and Technology in Agriculture (3) ATM 450 - Sensors and Controls for Agricultural and Biological Systems (3) ATM 455 – Engines and Power Transfer (3) ATM 661 – Watershed Management (3) BAE 345 – Properties of Biological Materials (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) GRSC 540 - Engineering Applications to Grain/Food Products (3) GRSC 541 - Engineering Applications to Grain/Food Products Laboratory (1)</p> <p>Processing Electives 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 & Techonology (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 (3) GRSC 405 - Grain Analysis Techniques (2)</p>	<p>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)</p> <p><u>HMD 443 – Food Writing (3)</u></p> <p>MC 110 - Mass Communication in Society (3) MC 120 - Principles of Advertising (3) MC 180 - Fundamentals of Public Relations (3) <u>SOCWK 612 – Fund Comm for Ag & Food Sci (3)</u></p> <p>Technology Electives ASI 490 - Microcomputer Applications in Animal Sciences and Industry (3) ATM 160 - Engineered Systems and Technology in Agriculture (3) ATM 450 - Sensors and Controls for Agricultural and Biological Systems (3)</p> <p>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) GRSC 540 - Engineering Applications to Grain/Food Products (3) GRSC 541 - Engineering Applications to Grain/Food Products Laboratory (1)</p> <p>Processing Electives 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 & Techonology (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 (3) GRSC 405 - Grain Analysis Techniques (2) <u>GRSC 602 - Cereal Science (3)</u></p>
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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)

Business, Management & Economics Electives

Courses used to fulfill the 15 credit hours of ~~Minor requirements cannot be used for~~ Professional Elective requirements.

ACCTG 231 - Accounting for Business Operations (3)

ACCTG 241 - Accounting for Investing and Financing (3)

~~AGEC 120 - Agricultural Economics and Agribusiness (3)~~

AGEC 308 - Farm and Ranch Management (3)

AGEC 318 - Food and Agribusiness Management (3)

AGEC 410 - Agricultural Policy (3)

AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3)

AGEC 420 - Commodity Futures (3)

AGEC 505 - Agricultural Market Structures (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 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)

~~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)~~

~~ECON 120 - Principles of Microeconomics (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

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)

Business, Management & Economics Electives

Courses used to fulfill the 15 credit hours of business/management & economics electives cannot be used for professional elective requirements.

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 318 - Food and Agribusiness Management (3)

AGEC 410 - Agricultural Policy (3)

AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (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 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)

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)

<p>Business (3) MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts - Salina campus (3) MANGT 421 - Introduction to Operations Management - Salina campus (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 - Salina campus (3)</p> <p>MINOR (15 credit hours) Select one minor: Business Minor Agribusiness Minor Agricultural Economics Minor</p> <p>UNRESTRICTED ELECTIVES (7-12 credit hours) 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 607 - Food Microbiology (4) 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>Total hours required for graduation (126 credit hours)</p>	<p>MANGT 390 - Business Law I (3) MANGT 420 - Management Concepts (3)</p> <p>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><u>BUSINESS, MANAGEMENT & ECONOMICS</u> <u>Select 15 credits from the business courses listed above. Students are strongly encouraged to complete a minor in either Business Administration, Agricultural Economics or Agricultural Business.</u></p> <p>UNRESTRICTED ELECTIVES (7-12 credit hours) 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 607 - Food Microbiology (4) 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>Total hours required for graduation (126 credit hours)</p>
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RATIONALE:

We are requesting two curriculum changes for the FDSCI Business & Operations Management Option. The first change is to remove, add, or recategorize courses under different subcategories within the professional electives block. Courses being removed are no longer offered, are no longer taken by FDSCI students, or have pre-requisites FDSCI students most likely will be unable to meet. Courses added to the professional electives block are newer courses that were not available previously, courses commonly used as variances, or courses with significant relevance to FDSCI program.

The second change we are proposing is to no longer require students to complete a minor in business administration, ag economics or ag business. This change would reduce confusion in the DARS report and give students business selection options that could more closely meet their professional course objectives. Currently, there are three professional elective sections in DARS which include professional electives, processing electives and the respective three minor options. They are repetitive and students need to select one. There is continued difficulty in understanding this concept. By changing from a required minor to a recommended minor, the DARS could be simplified and have a Business requirement (section) of 15 hrs that will include

the courses needed to meet the three minors. Students will continue to be encouraged to obtain a minor in business administration, ag economics or ag business.

IMPACT:

This proposal is expected to have minimal impact on courses taken by FDSCI students. Since removed courses were not being taken and re categorized courses remain in the professional electives block, we expect no change in the status of these courses. For courses added to the curriculum, we would anticipate a potential increase of 0-2 students per year as these courses are part of a larger professional electives block. This proposal has been shared with AGECE, ATM, BAE, BIOL, ECON, HMD, GENAG, HORT, PHYS, and STAT and we have received written (email) approval and support of these changes from Department Heads and/or Teaching Coordinators of their respective programs.

EFFECTIVE DATE: Fall 2012

B.S. in Food Science & Industry: Science Option

FROM:

TO:

<p>General Courses (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 communications course (2–3)</p> <p>Social Sciences and Humanities (12 credit hours) ECON 110 - Principles of Macroeconomics (3)</p> <p>Humanities/social sciences courses 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 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>Quantitative Studies (13 credit hours) MATH 100 - College Algebra (3) MATH 220 - Analytic Geometry and Calculus I(4)</p> <p>Select One STAT 325 - Introduction to Statistics (3) or STAT 340 - Biometrics I (3) or</p>	<p>General Courses (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 communications course (2–3)</p> <p>Social Sciences and Humanities (12 credit hours) ECON 110 - Principles of Macroeconomics (3)</p> <p>Humanities/social sciences courses 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 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>Quantitative Studies (13 credit hours) MATH 100 - College Algebra (3) MATH 220 - Analytic Geometry and Calculus I (4)</p> <p>Select One STAT 325 - Introduction to Statistics (3) or STAT 340 - Biometrics I (3) or</p>
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<p>STAT 350 - Business and Economic Statistics I (3)</p> <p>Select One STAT 341 - Biometrics II (3) or STAT 351 - Business and Economic Statistics II(3)</p> <p>Biological Sciences (8 credit hours) BIOL 198 - Principles of Biology (4) BIOL 455 - General Microbiology (4)</p> <p>Physical Sciences (23 credit hours) BIOCH 521 - General Biochemistry (3) and BIOCH 522 - General Biochemistry Laboratory (2) CHM 210 - Chemistry I (4) CHM 230 - Chemistry II (4) CHM 350 - General Organic Chemistry (3) and CHM 351 - General Organic Chemistry Laboratory (2) PHYS 115 - Descriptive Physics (5)</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 607 - Food Microbiology (4) 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>Unrestricted Electives (7-10 credit hours) Professional Electives (20 credit hours) Must have 3 processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Other professional electives can be substituted as appropriate.</p> <p>Food Science Electives AGRON 335 - Environmental Quality (3) ASI 303 - History and Attitudes of Animal Use (3) ASI 315 - Livestock and Meat Evaluation (3) 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 Study Experience in Animal Science (0-6)</p>	<p>STAT 350 - Business and Economic Statistics I (3)</p> <p>Select One STAT 341 - Biometrics II (3) or STAT 351 - Business and Economic Statistics II (3)</p> <p>Biological Sciences (8 credit hours) BIOL 198 - Principles of Biology (4) BIOL 455 - General Microbiology (4)</p> <p>Physical Sciences (23 credit hours) BIOCH 521 - General Biochemistry (3) and BIOCH 522 - General Biochemistry Laboratory (2) CHM 210 - Chemistry I (4) CHM 230 - Chemistry II (4) CHM 350 - General Organic Chemistry (3) and CHM 351 - General Organic Chemistry Laboratory (2) PHYS 115 - Descriptive Physics (5)</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 607 - Food Microbiology (4) 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>Unrestricted Electives (7-10 credit hours) Professional Electives (20 credit hours) Must have 3 processing electives from at least 2 commodity areas - Dairy, Grain, Meat, or Fruit/Vegetables. Other professional electives can be substituted as appropriate.</p> <p>Food Science Electives AGRON 335 - Environmental Quality (3) ASI 303 - History and Attitudes of Animal Use (3) ASI 315 - Livestock and Meat Evaluation (3) 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 Study Experience in Animal Science (0-6)</p>
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<p>BIOL 340 - Structure and Function of the Human Body (8) BIOL 450 - Modern Genetics (4)</p> <p>BIOL 541 - Cell Biology (3)</p> <p>CHM 550 - Organic Chemistry II (3) CHM 551 - Advanced Organic Laboratory (2)</p> <p>FDSCI 430 - Food Products Evaluation (3) FDSCI 603 - Food Science Internship (1-6) FDSCI 630 - Food Science Problems (Variable) FDSCI 713 - Rapid Methods and Automation in Microbiology (2) FDSCI 730 - A Multidisciplinary Overview of Food Safety and Security (2)</p> <p>FDSCI 791 - Advanced Application of HACCP Principles (3) GENAG 505 - Comparative Agriculture (1-4)</p> <p>GNHE 310 - Human Needs (3)</p> <p>HN 352 - Personal Wellness (3) HN 400 - Human Nutrition (3) HN 413 - Science of Food (4) HN 510 - Life Span Nutrition (3) HN 600 - Public Health Nutrition (3) HN 620 - Nutrient Metabolism (3) HN 631 - Clinical Nutrition I (2) HN 632 - Clinical Nutrition II (3) HN 635 - Nutrition and Exercise (3) HN 701 - Sensory Analysis (3) GRSC 602 - Cereal Science (3) GRSC 651 - Food and Feed Product Protection (4) GRSC 661 - Qualities of Food and Feed Ingredients (3) PHYS 114 - General Physics II-Salina campus (4) STAT 341 - Biometrics II (3)</p> <p>Communications Any foreign language Completion of Advanced Meat Evaluation 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)</p>	<p><u>BIOL 330 – Public Health Biology (3)</u> BIOL 340 - Structure and Function of the Human Body (8) BIOL 450 - Modern Genetics (4) <u>BIOL 530 – Pathogenic Microbiology (3)</u> BIOL 541 - Cell Biology (3) <u>BIOL 690 – Microbial Physiology & Metabolism (2)</u> CHM 550 - Organic Chemistry II (3) CHM 551 - Advanced Organic Laboratory (2) FDSCI 430 - Food Products Evaluation (3) FDSCI 603 - Food Science Internship (1-6) FDSCI 630 - Food Science Problems (Variable) FDSCI 713 - Rapid Methods and Automation in Microbiology (2) FDSCI 730 - A Multidisciplinary Overview of Food Safety and Security (2) <u>FDSCI 731 – Food Prot and Def: Essential Concepts (3)</u> FDSCI 791 - Advanced Application of HACCP Principles (3) GENAG 505 - Comparative Agriculture (1-4) <u>GENAG 711 – Occupational & Ag Health (3)</u> <u>GENAG 721 Occupational & Ag Safety & Health (3)</u> GNHE 310 - Human Needs (3) <u>HMD 220 – Environmental Issues in Hospitality (3)</u> <u>HMD 341 – Principles of Food Production Management (3)</u> <u>HMD 442 – Introduction to Wines (1)</u> HN 352 - Personal Wellness (3) HN 400 - Human Nutrition (3)</p> <p>HN 510 - Life Span Nutrition (3)</p> <p>HN 620 - Nutrient Metabolism (3)</p> <p>HN 701 - Sensory Analysis (3)</p> <p>GRSC 651 - Food and Feed Product Protection (4) GRSC 661 - Qualities of Food and Feed Ingredients (3) PHYS 114 - General Physics II-Salina campus (4)</p> <p>Communications Any foreign language Completion of ASI 495 Advanced Meat Evaluation 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)</p>
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<p>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>Business, Management & Economics Electives ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3) AGEC 120 - Agricultural Economics and Agribusiness (3)</p> <p>AGEC 308 - Farm and Ranch Management (3) AGEC 318 - Food and Agribusiness Management (3) AGEC 410 - Agricultural Policy (3) AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) AGEC 420 - Commodity Futures (3)</p> <p>AGEC 505 - Agricultural Market Structures (3)</p> <p>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 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) ECON 120 - Principles of Microeconomics (3)</p> <p>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-Salina campus (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-Salina campus (3)</p>	<p>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) <u>HORT 325 – Introduction to Organic Farming (3)</u></p> <p>Business, Management & Economics Electives ACCTG 231 - Accounting for Business Operations (3) ACCTG 241 - Accounting for Investing and Financing (3) AGEC 120 - Agricultural Economics and Agribusiness (3) <u>AGEC 202 – Small Business Ops (3)</u> <u>AGEC 220 – Grain and Livestock Marketing 3</u> AGEC 308 - Farm and Ranch Management (3) AGEC 318 - Food and Agribusiness Management (3) AGEC 410 - Agricultural Policy (3) AGEC 415 - The Global Agricultural Economy, Hunger, and Poverty (3) AGEC 420 - Commodity Futures (3) <u>AGEC 500 – Production Econ (3)</u> AGEC 505 - Agricultural Market Structures (3) <u>AGEC 513 – Agriculture Finance (3)</u> 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 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) ECON 120 - Principles of Microeconomics (3) <u>ECON 510 – Intermediate Macroeconomics (3)</u> 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>
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RATIONALE:

We are requesting a curriculum change for the FDSCI Science Option. The proposal is to remove, add, or re categorize courses under different subcategories within the professional electives block. Courses being removed are no longer offered, are no longer taken by FDSCI

students, or have pre-requisites FDSCI students most likely will be unable to meet. Courses added to the professional electives block are newer courses that were not available previously, courses commonly used as variances, or courses with significant relevance to FDSCI program.

IMPACT:

This proposal is expected to have minimal impact on courses taken by FDSCI students. Since removed courses were not being taken and re categorized courses remain in the professional electives block, we expect no change in the status of these courses. For courses added to the curriculum, we would anticipate a potential increase of 0-2 students per year as these courses are part of a larger professional electives block. This proposal has been shared with AGECE, ATM, BAE, BIOL, ECON, HMD, GENAG, and HORT and we have received written (email) approval and support of these changes from Department Heads and/or Teaching Coordinators of their respective programs.

EFFECTIVE DATE:

Fall 2012

Grain Science & Industry

Bakery Science Minor

FROM:

Grain science majors cannot use courses required in their major as part of a bakery science minor.

GRSC 101 - Introduction to Grain Science and Industry (3)
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)

Total Credits: 17

TO:

Grain science majors cannot use courses required in their major as part of a bakery science minor.

GRSC 101 - Introduction to Grain Science and Industry (3)
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)

Total Credits: 17

*Requirements for the Laboratory class taken by distance will require the student to complete the same work as on campus students. This work may be done on campus or at appropriate industry locations.

RATIONALE:

The changes are proposed in order to retain the minor for current KSU students and make it available by distance education to post-baccalaureate graduates of Kansas State University and other accredited Universities. The grain industry as a whole is experiencing a shortage of employees with an adequate skill set or experience. With continued growth, due to new outlets of commodities, the opportunities for employment continue to grow, there is a need to educate new hires and current employees that are not graduates of the Kansas State University's Department of Grain Science & Industry's current program. A minor in Bakery Science and Management from Kansas State University will allow students to obtain basic knowledge in the baking science field. We have been approached by industry companies, associations and trade groups about making this minor available to non-K-State graduates so that hires without a baking background may learn basic information to help them better understand the industry in which they are working while also allowing hires to get college credit for a minor.

PROPOSED DELIVERY MECHANISM:

The post baccalaureate K-State students and the non-K-State students taking the minor will be handled through DCE.

NEED FOR ADDITIONAL RESOURCES:

We already have a Distance Education Director, Brandi Miller; and another person, Brenda Heptig, Undergraduate Student Services Coordinator, who keeps track of minors in the department. There is no additional cost to the department to handle these minors.

PROJECTED ENROLLMENT/EVIDENCE OF NEED:

The grain industry as a whole is experiencing a shortage of employees with adequate skill sets or experience. With continued growth, due to new outlets of commodities, the opportunities for employment continue to grow. There is a need to educate new hires and current employees that are not graduates of the Kansas State University's Department of Grain Science & Industry's current program. A minor in Baking Science and Management from Kansas State University will allow students to obtain basic knowledge in the baking science field. We have been approached by industry companies, associations and trade groups about making this minor available to non-K-State graduates so that hires without a baking background may learn basic information to help them better understand the industry in which they are working while also allowing hires to get college credit for a minor.

ADMISSION REQUIREMENTS:

A minor in Bakery Science and Management is available to current K-State undergraduate students and post-baccalaureate K-State students. The Department of Grain Science and Industry now wishes to make the minor available to non-K-State graduates of an accredited University subject to the following criteria:

Students must submit a Minor Application Form.

The application must be approved by the Grain Science and Industry Undergraduate Program Committee in order for the student to be eligible to receive the requested minor.

Applicants must have completed all necessary graduate requirements from an accredited 4-year university.

COMPLETION REQUIREMENTS:

In order to obtain a Minor in Bakery Science and Management, students must:

Complete the required courses with a cumulative GPA of at least 2.0.

Take a minimum of eleven credits from KSU plus a maximum of six transfer credits approved by the department for a total of seventeen hours to complete the minor requirements.

PROGRAM ASSESSMENT:

This minor is attached to the Baking Science and Management degree program and will be assessed as part of the currently existing Assessment plan for that degree.

IMPACT:

This will allow both current students as well as post-baccalaureate students the opportunity to earn a minor in Baking Science and Management. There is no impact outside of the department of Grain Science & Industry.

EFFECTIVE DATE: Fall 2012

Feed Science Minor

FROM:

TO:

Grain science majors cannot use courses required in their major as part of a feed science minor.	Grain science majors cannot use courses required in their major as part of a feed science minor.
GRSC 101 - Introduction to Grain Science and Industry (3)	GRSC 101 - Introduction to Grain Science and Industry (3)
GRSC 210 – CAD Flow Sheets for Grain Processes (3)	*GRSC 510 - Feed Technology I (4)
GRSC 510 - Feed Technology I (4)	*GRSC 690 - Feed Technology II (4)
GRSC 655 – Cereal Food Plant Design and Construction (3)	<u>GRSC 661 – Quality of Feed Ingredients (3)</u>
GRSC 690 - Feed Technology II (4)	<u>GRSC 630 – Management Applications in the Grain Processing Industry (3)</u>
Total Credits: 17	<u>Or</u> <u>GRSC 310 – Materials Handling (3)</u> Total Credits: 17
	<u>*Requirements for the Laboratory class taken by distance will require the student to complete the same work as on campus students. This work may be done on campus or at appropriate industry locations.</u>

RATIONALE:

The changes are proposed in order to retain the minor for current KSU students and make it available by distance education to post-baccalaureate graduates of Kansas State University and other accredited Universities. The feed industry as a whole is experiencing a shortage of employees with adequate skill sets or experience. With continued growth, due to new outlets of commodities, the opportunities for employment continue to grow. There is a need to educate new hires and current employees that are not graduates of the Kansas State University’s Department of Grain Science & Industry’s current program. A minor in Feed Science and Management from Kansas State University will allow students to obtain basic knowledge in the feed industry. We have been approached by industry associations and trade groups about making this minor available to non-K-State graduates so that hires without a feed milling background may learn basic information to help them better understand the industry in which they are working while also allowing hires to get college credit for a minor.

PROPOSED DELIVERY MECHANISM:

The post baccalaureate K-State students and the non-K-State students taking the minor will be handled through DCE.

NEED FOR ADDITIONAL RESOURCES:

We already have a Distance Education Director, Brandi Miller; and another person, Brenda Heptig, Undergraduate Student Services Coordinator, who

keeps track of minors in the department. There is no additional cost to the department to handle these minors.

PROJECTED ENROLLMENT/EVIDENCE OF NEED:

The feed industry as a whole is experiencing a shortage of employees with adequate skill sets or experience. With continued growth, due to new outlets of commodities, the opportunities for employment continue to grow. There is a need to educate new hires and current employees that are not graduates of the Kansas State University's Department of Grain Science & Industry's current program. A minor in Feed Science and Management from Kansas State University will allow students to obtain basic knowledge in the feed industry. We have been approached by industry associations and trade groups about making this minor available to non-K-State graduates so that hires without a feed milling background may learn basic information to help them better understand the industry in which they are working while also allowing hires to get college credit for a minor.

ADMISSION REQUIREMENTS:

A Minor in Feed Science and Management is available to current K-State undergraduate students and post-baccalaureate K-State graduates. The Department of Grain Science and Industry now wishes to make the minor available to non-K-State graduates of an accredited University subject to the following criteria:

Students must submit a Minor Application Form.

The application must be approved by the Grain Science and Industry Undergraduate Program Committee in order for the student to be eligible to receive the requested minor.

Applicants must have completed all necessary graduate requirements from an accredited university.

COMPLETION REQUIREMENTS:

In order to obtain a Minor in Feed Science and Management, students must:

Complete the required courses with a cumulative GPA of at least 2.0.

Take at least eleven credits from KSU plus a maximum of six transfer credits approved by the department for a total of seventeen hours to complete the minor requirements.

PROGRAM ASSESSMENT:

This minor is attached to the Feed Science and Management degree program and will be assessed as part of the currently existing Assessment plan for that degree.

IMPACT:

This will allow both current students as well as post-baccalaureate students the opportunity to earn a minor in Feed Science and Management. There is no impact outside of the department of Grain Science & Industry.

EFFECTIVE DATE: Fall 2012

Grain Handling Operations Minor

ADD:

	<p><u>Grain science majors cannot use courses required in their major as part of a feed science minor.</u></p> <p><u>GRSC 101 - Introduction to Grain Science and Industry</u> _____ (3)</p> <p><u>GRSC 310 – Materials Handling</u> (3)</p> <p><u>GRSC 655 – Cereal Food Plant Design and Construction</u> _____ (3)</p> <p><u>GRSC 710 – Fundamental of Grain Storage</u> _____ (3)</p> <p><u>GENAG 712 –Occupational & Agricultural Injury Prevention</u> _____ (3)</p> <p style="text-align: right;">Total Credits: 15</p>
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RATIONALE:

This minor will align with the Feed Science and Management curriculum. This new minor is proposed to be made available to both on-campus current KSU students and by distance education to post-baccalaureate graduates of Kansas State University and other accredited Universities. The grain industry as a whole is experiencing a shortage of employees with adequate skill sets or experience. With continued growth, due to new outlets of commodities, the opportunities for employment continue to grow. There is a need to educate new hires and current employees that are not graduates of the Kansas State University’s Department of Grain Science & Industry’s current program. A minor in Grain Handling Operations from Kansas State University will allow students to obtain basic knowledge in the grain handling field. The grain handling field is an associated part of the feed industry and no such academic program is currently available anywhere. The department has been asked by the Grain Elevator and Processing Association (GEAPS) to create a minor covering basic principles of grain handling and to make it available for new hires.

PROPOSED DELIVERY MECHANISM:

The post baccalaureate K-State students and the non-K-State students taking the minor will be handled through DCE.

NEED FOR ADDITIONAL RESOURCES:

We already have a Distance Education Director, Brandi Miller; and another person, Brenda Heptig, Undergraduate Student Services Coordinator, who keeps track of minors in the department. There is no additional cost to the department to handle these minors.

PROJECTED ENROLLMENT/EVIDENCE OF NEED:

The grain industry as a whole is experiencing a shortage of employees with adequate skill sets or experience. With continued growth, due to new outlets of commodities, the opportunities for employment continue to grow. There is a need to educate new hires

and current employees that are not graduates of the Kansas State University's Department of Grain Science & Industry's current program. A minor in Grain Handling Operations from Kansas State University will allow students to obtain basic knowledge in the grain handling field. The grain handling field is an associated part of the feed industry and no such academic program is currently available anywhere. The department has been asked by the Grain Elevator and Processing Association (GEAPS) to create a minor covering basic principles of grain handling and to make it available for new hires.

ADMISSION REQUIREMENTS:

A Minor in Grain Handling Operations would follow the same procedures as the existing Feed Science minor program. It will be available to current K-State undergraduate students, post-baccalaureate K-State graduates, and non-K-State graduates of an accredited University subject to the following criteria:

Students must submit a Minor Application Form.

The application must be approved by the Grain Science and Industry Undergraduate Program Committee in order for the student to be eligible to receive the requested minor.

Applicants must have completed all necessary graduate requirements from an accredited university

COMPLETION REQUIREMENTS:

In order to obtain a Minor in Grain Handling Operations, students must:

Complete the required courses with a cumulative GPA of at least 2.0.

Take at least nine credits from KSU plus a maximum of six transfer credits approved by the department for a total of fifteen hours to complete the minor requirements.

PROGRAM ASSESSMENT:

This minor is attached to the Feed Science and Management degree program and will be assessed as part of the currently existing Assessment plan for that degree.

IMPACT:

This will allow both current students as well as post-baccalaureate students the opportunity to earn a minor in Grain Handling Operations. The primary instructor for GENAG 712 was contacted and informed and had no concerns with adding the course to the minor. There is no impact outside of the department of Grain Science & Industry and no additional cost to the department as the department already has a person designated and serving as the department's Distance Education Coordinator.

EFFECTIVE DATE: Fall 2012

Horticulture, Forestry, and Recreational Resources
 B.S. in Wildlife and Outdoor Enterprise Management

FROM:

TO:

Biology and Natural Resources Management Related Courses (39)	Biology and Natural Resources Management Related Courses (39)
College of Agriculture:	
Agronomy	
AGRON 305 Soils 4	AGRON 305 Soils 4
AGRON 501 Range Management 3	AGRON 501 Range Management 3
Animal Science and Industry	
ASI 645 Poultry Management 3	ASI 645 Poultry Management 3
Horticulture, Forestry and Recreation Resources	
FOR 285 Forest Resource Management 3	FOR 285 Forest Resource Management 3
FOR 375 Intro to Natural Resource Management 3	FOR 375 Intro to Natural Resource Management 3
RRES 250 Introduction to Wildlife & Outdoor Enterprise Management 3	RRES 250 Introduction to Wildlife & Outdoor Enterprise Management 1
RRES 570 Internship for Wildlife & Outdoor Enterprise Management 10	RRES 570 Internship for Wildlife & Outdoor Enterprise Management 10
RRES 595 Wildlife & Outdoor Enterprise Management Senior Seminar 1	RRES 595 Wildlife & Outdoor Enterprise Management Senior Seminar 1
College of Arts and Sciences:	
Biology Division/Fisheries, Wildlife and Conservation Biology	
BIOL 433 Wildlife Conservation 3	BIOL 433 Wildlife Conservation 3
BIOL 684 Wildlife Management and Techniques 4	BIOL 684 Wildlife Management and Techniques 4
BIOL 696 Fisheries Management and Techniques 4	BIOL 696 Fisheries Management and Techniques 4
Outdoors Skills Courses	
Hunting	
RRES 555 Principles and Practices of Big Game Hunting and Guiding 3	RRES 555 Principles and Practices of Big Game Hunting and Guiding 3
RRES 560 Principles and Practices of Upland Gamebird, Turkey and Waterfowl Hunting and Guiding 3	RRES 560 Principles and Practices of Upland Gamebird, Turkey and Waterfowl Hunting and Guiding 3
Fishing	
RRES 565 Principles and Practices of Freshwater Fishing and Guiding 3	RRES 565 Principles and Practices of Freshwater Fishing and Guiding 3
Shooting Sports	
RRES 200 Firearms and Firearms Maintenance 1	<u>RRES 201</u> Firearms and Firearms Maintenance 1
RRES 200 Sporting Clays Range Development and Operations 1	<u>RRES 205</u> Sporting Clays Range Development and Operations 1
RRES- 200 Trap and Skeet Range Development and Operations 1	<u>RRES 206</u> Trap and Skeet Range Development and Operations 1
RRES 200 - Rifle and Handgun Range Design, Construction and Operations 1	<u>RRES 202</u> Rifle and Handgun Range Design, Construction and Operations 1
RRES 200 Bowhunting Equipment and Skills 1	<u>RRES 203</u> Bowhunting Equipment and Skills 1
Guiding and Operating Skills	
RRES 200 Hunter Education Instructor 1	<u>RRES 204</u> Hunter Education Instructor 1
RRES 200 Wildlife Habitat/Food Plot Installation and Maintenance 2	<u>RRES 207</u> Wildlife Habitat/Food Plot Installation and Maintenance 2
Business Administration Related Courses	
MANGT 420 Management Concepts 3	MANGT 420 Management Concepts 3
MKTG 400 Marketing 3	MKTG 400 Marketing 3
FINAN 450 Principles of Finance 3	FINAN 450 Principles of Finance 3
ACCTG 231 Accounting for Business Operations 3	ACCTG 231 Accounting for Business Operations 3
	<u>ACCTG 241 Accounting for Investing and Financing 3</u>

Hospitality Management and Dietetics			Hospitality Management and Dietetics		
HRIMD 220	Environmental Issues in Hospitality	2	HRIMD 220	Environmental Issues in Hospitality	2
HRIMD 230	Issues in Tourism	2			
HRIMD 340	Contemporary Issues in Controlled Beverages	2	HRIMD 340	Contemporary Issues in Controlled Beverages	2
HRIMD 341	Principles of Food Production Management	3	HRIMD 341	Principles of Food Production Management	3
General Requirements			General Requirements		
Communications requirements:			Communications requirements:		
ENGL 100	Expository Writing I	3	ENGL 100	Expository Writing I	3
ENGL 200	Expository Writing II	3	ENGL 200	Expository Writing II	3
SPCH 106	Public Speaking I	3	SPCH 106	Public Speaking I	3
General agriculture requirement:			General agriculture requirement:		
GENAG 101	Ag Orientation	1	GENAG 101	Ag Orientation	1
Natural sciences requirements:			Natural sciences requirements:		
BIOL 198	Principles of Biology	4	BIOL 198	Principles of Biology	4
BIOL 201	Organismic Biology	5	BIOL 201	Organismic Biology	5
GEOL 100	Earth in Action	3	GEOL 100	Earth in Action	3
CHM 110	General Chemistry	3	CHM 110	General Chemistry	3
CHM 111	General Chemistry Lab	1	CHM 111	General Chemistry Lab	1
Social systems requirements:			Social systems requirements:		
ECON 110	Principles of Macroeconomics	3	ECON 110	Principles of Macroeconomics	3
ECON 120	Principles of Microeconomics	3	ECON 120	Principles of Microeconomics	3
SOCIO 211	Introduction to Sociology	3	SOCIO 211	Introduction to Sociology	3
Mathematics and statistics requirements:			Mathematics and statistics requirements:		
MATH 100	College Algebra	3	MATH 100	College Algebra	3
STAT 350	Business and Economic Statistics I	3	STAT 350	Business and Economic Statistics I	3
Free Electives:	<u>12 hours</u>		Free Electives:	<u>11 hours</u>	
Total Hours	130 hours		Total Hours	130 hours	

RATIONALE: The proposed curriculum changes reflect 1) Renumbering the RRES 200 series (outdoor skills” courses (7 in total) to allow greater ease in locating these courses by students, advisers, the college and university enrollment teams. 2) Moving, at the request of outdoor industry leaders, the accounting 241/Accounting for Investing and Financing (3 hours) from a “suggested elective” course to a “required” course. This will allow our Wildlife and Outdoor Enterprise Management students to complete their “Business Minor” as a formal component of the WOEM Degree Program. 3) Dropping HRIMD (HMD) 230 “Issues in Tourism” to allow adding the above accounting course and reducing program “free electives” by only one hour (11 down from 12) of the required courses initially identified for the Wildlife and Outdoor Enterprise Management B.S. Degree Program. The “Issues in Tourism” course can be eliminated without significant impact on our students’ ability to be successful professionals upon graduation.

IMPACT: The Accounting 241 ”Accounting for Investing and Financing” will not see a change in enrollment; all Wildlife and Outdoor Enterprise Management students have already been taking the course as a “suggested elective” at the advice of their major professor. The Department Head of Accounting (Richard Ott) was contacted and responded indicating approval of the change. 2) Dropping (HRIMD/HMD 230 “Issues in Tourism” from the Wildlife and Outdoor Enterprise Management Degree Program will mean a decrease in enrollment in this course by some 30 students a year. The Department Head of Hospitality Management and Dietetic (Jeannie Sneed) was contacted and responded indicating that they understand the need to change the curriculum; the department did not object to the change.

EFFECTIVE DATE: Fall 2012

COLLEGE OF ARCHITECTURE, PLANNING AND DESIGN (11-18-11)

COURSE CHANGES

Department of Architecture (Master of Architecture Program)

Addition of New Courses

Effective Date: Fall 2012

Impact on Other Units: None

Course: ARCH 274 Digital Architecture I
Credits: (1)
Catalog Description: This course will introduce students to digital management concepts, basic architectural digital representation, 3-dimensional computer modeling, raster, and vector graphics with an emphasis on conceptual development.
Prerequisites: Second year standing or higher, or permission of the instructor
When Offered: Fall, Spring, Summer
UGE Course: No
K-State 8: None

Course: ARCH 373 Digital Architecture II
Credits: (1)
Catalog Description: Students will be introduced to Building Information Modeling (BIM) during the course, with emphasis on BIM methods for conceptual development, the design and representation of building assemblies and systems, and architectural documentation.
Prerequisites: Second year standing or higher, or permission of the instructor
When Offered: Fall, Spring, Summer
UGE Course: No
K-State 8: None

Course: ARCH 374 Digital Architecture III
Credits: (1)
Catalog Description: Methods for digital 3-dimensional visualization, including rendering, animation, compositing and analysis will be introduced during this course.
Prerequisites: ARCH 274, ARCH 373, or permission of the instructor
When Offered: Fall, Spring, Summer
UGE Course: No
K-State 8: Aesthetic Experience and Interpretive Understanding
Empirical and Quantitative Reasoning

Rationale: Computing is currently addressed by one single required 3 credit hour course – ARCH 472 – which puts a significant burden on the students by having to become proficient with a very broad set of technologies and skill-sets. The new courses spread out the course content over a longer period of time. Three new 1 credit hour courses are being created to take the place of ARCH 472. (ARCH 472 is being dropped through the expedited process effective Fall 2014)

**Dean of Architecture, Planning and Design
(Environmental Design Studies Program)**

Addition of New Courses

Effective Date: Fall 2012

Impact on Other Units: None

Course: ENVD 020 University Honors Program
Catalog Description: All students participating in the University Honors Program and who are enrolled in the College of Architecture, Planning & Design must enroll each semester
Credits: (0)
When Offered: Fall, Spring
K-State 8: None
Rationale: *ENVD 020 is not a regular course (thus, no syllabus and zero credit hours), but rather a bookkeeping method that allows the University Honors Program to track its students. All other colleges have then 020 designation for this similar purpose.*

Course: ENVD 189 Introduction to University Honors Program
Catalog Description: Introduction to the University Honors Program. (1) I, II. Directions and goals for the honors program.
Credits: (1)
When Offered: Fall, Spring
K-State 8: None
Rationale: *Other colleges currently use the 189 course number and the prefix is specific to their college. Establishment of this course will be consistent with the other colleges.*

**Department of Landscape Architecture/Regional and Community Planning
(Master of Regional & Community Planning Program)**

Addition of New Courses

Effective Date: Fall 2012

Impact on Other Units: None

Course: PLAN 010 Planning Field Trip
Catalog Description: Field trip requirement: each spring students will be required to participate in a 4- to 5-day field trip.
Credits: (0)
Requisites: None
When Offered: Spring
K-State 8: None
Rationale: *The Planning Field Trip, offered in conjunction with the Landscape Architecture Field Trip provides students with a structured travel experience to a city demonstrating best practices in city planning.*

Course: PLAN 316 Planning Principles Seminar
Catalog Description: Discussion of the principles and process of regional and community planning as practiced by the profession. The tools, skills and knowledge of the planning professions are presented in a focused introduction to the profession.
Credits: 2)
Corequisites: PLAN 315, admission to the Regional and Community Planning program
When Offered: Fall

K-State 8: None
Rationale: PLAN 316 supplements the content of PLAN 315, Introduction to City Planning (a large lecture class delivered to undergraduate students from a variety of majors), to provide Regional and Community Planning majors a focused introduction to the discipline.

Course: PLAN 415 World Cities
Catalog Description: This course introduces undergraduates from a variety of disciplines to some of the major urban areas in the world, how and why they developed, what makes them unique, what it might be like to live there, and what issues they may face in achieving a sustainable future. This course gives students a way of thinking about cities in a global context that highlights both their differences and their similarities. Through lectures, text and other multi-media formats, students explore some of the main opportunities and challenges facing the inhabitants of large cities in today's world.

Credits: (3)
Requisites: None
When Offered: Spring
K-State 8: Global Issues & Perspectives, Social Sciences
Rationale: PLAN 415 addresses the need for students to have a global perspective of the world cities in which they will live and work. This will be of importance to students across the university and must be addressed to meet Planning Accreditation Board standard.

Course: PLAN 444 Internship Planning Seminar
Catalog Description: Exploration and preparation for a planning internship.
Credits: (1)
Requisites: PLAN 315, PLAN 316
When Offered: Fall
K-State 8: None
Rationale: PLAN 444 provides skills and knowledge necessary for students to obtain an internship in planning practice and to prepare for professional practice.

Course: PLAN 510 Tech Module
Catalog Description: Introductory theory, methods, and application of technological skills and support of concurrent required courses. Emphasis is on data collection, management, mapping and analysis.
Credits: (1)
Corequisites: LAR 420
When Offered: Fall
K-State 8: None
Rationale: PLAN 510 provides technical skills and knowledge necessary to complete LAR 420, a course completed in meeting Planning Accreditation Board criteria.

CURRICULUM CHANGES

Department of Landscape Architecture/Regional and Community Planning (Community Planning Minor)

Effective Date: Fall 2012

Impact on Other Units: None

Rationale: Changes to the Minor in Community Development curriculum are a result of:
1- This curriculum reflects the proposed course changes for the Department of Landscape Architecture/Regional and Community Planning.

FROM: (Current list of courses for the curriculum, curriculum description, and admission criteria.)

TO: (Proposed list of courses for the curriculum, curriculum description, and admission criteria.)

<p>The minor in community planning is for students who wish to expand their knowledge of the processes of community planning and development.</p> <p>NOTE: The minor in community planning is not available to students enrolled in the five-year MARCH, MLA, MIAPD, or MRCP programs in the College of Architecture, Planning and Design.</p>	<p>The minor in community planning is for students who wish to expand their knowledge of the processes of community planning and development. <u>To earn the minor in community development, students are required to complete 15 credit hours of planning courses with grades of C or better.</u></p>
<p>Program requirements</p> <p>Core requirements Successful completion of the following planning course with a grade of C or better:</p> <p>PLAN 315 - Introduction to City Planning Credits: (3)</p>	<p>Program requirements</p> <p>Core requirements Successful completion of the following planning courses:</p> <p>PLAN 315 - Introduction to City Planning Credits: (3) <u>PLAN 415 – World Cities Credits: (3)</u></p>
<p>Planning electives Successful completion of 42 credit hours of the following planning courses (unless an external elective option is elected by the student) with grades of C or better:</p> <p>PLAN 630 – Computer Applications in Planning and Design Credits: (1-3) PLAN 633 – Computer Applications in Planning III Credits: (1) PLAN 650 – Housing and Development Programs Credits: (3) PLAN 655 – Land Development Planning Credits: (3) PLAN 660 – Community Development Planning Credits: (3) PLAN 661 – Community Development Workshop Credits: (Variable) PLAN 699 – Special Studies in Planning Credits: (1-3) PLAN 616 – Seminar in Planning Credits: (1-3) PLAN 717 – Seminar in Grant Preparation Credits: (2) PLAN 721 – Infrastructure Planning and Financing Credits: (3) PLAN 731 – Solid Waste Planning and Management Credits: (1-3) PLAN 740 – Small Community and Rural Area Planning Credits: (3) PLAN 745 – Urban Design and Preservation Planning Theory Credits: (3) PLAN 746 – Urban Design and Preservation Studio Credits: (4) PLAN 747 – Urban Design and Preservation Field Study Credits: (1-3) PLAN 748 – Urban Visual Analysis Credits: (3) PLAN 752 – Physical Processes of Plan Implementation Credits: (3) PLAN 753 – Planning Law Credits: (3) PLAN 765 – Growth Management Credits: (3)</p>	<p>Additional requirements Successful completion of <u>9 credit hours of planning (PLAN) electives.</u></p>
<p>External electives Successful completion of 3 credit hours from the following list of courses is considered as an acceptable substitute for one of the courses listed above in the planning elective area:</p> <p>AGEC 525 – Natural Resource and Environmental Economics Credits: (3) AGEC 610 – Current Agriculture and Natural Resource Issues Credits: (3) ARCH 703 – Environmental Aesthetics Credits: (3) ARCH 720 – Environment and Behavior Credits: (3) ARCH 730 – Environment and Aging Credits: (3) BIOL 529 – Fundamentals of Ecology Credits: (3) CE 572 – Highway Engineering, Planning and Management Credits: (3) CE 786 – Land Development for Civil Engineers and Planners Credits: (3) ECON 527 – Environmental Economics Credits: (3) ECON 555 – Urban and Regional Economics Credits: (3) FINAN 552 – Real Estate Credits: (3) GEOG 450 – Geography of Economic Behavior Credits: (3) GEOG 508 – Geographic Information Systems I Credits: (4) GEOG 705 – Remote Sensing of the Environment Credits: (3) GEOG 708 – Geographic Information Systems II Credits: (3) GEOG 720 – Geography of Land Use Credits: (3) GEOG 750 – Urban Geography Credits: (3) GEOG 760 – Human Impact on the Environment Credits: (3) LAR 500 – Site Planning and Design Credits: (3)</p>	

<p>LAR 635 – Golf Course Planning and Design Credits: (1-4) LAR 646 – Community Planning and Design Credits: (5) LAR 704 – Environmental Landscape Planning and Design Credits: (5) LAR 735 – Advanced Golf Course Planning and Design Credits: (1-4) LAR 759 – Landscape Resource Evaluation Credits: (3) POLSC 618 – Urban Politics Credits: (3) POLSC 620 – State and Local Government Credits: (3) SOCIO 432 – Community Organization and Leadership Credits: (3) SOCIO 531 – Urban Sociology Credits: (3) SOCIO 533 – Rural Society Credits: (3)</p>	
<p>Criteria for admission Undergraduate students may apply for admission to the minor by contacting the departmental offices and completing an enrollment form at least one year prior to graduation. Students will be assigned an academic advisor for the minor program from faculty within the program in regional and community planning. While the elective options listed above are generic to the minors program, other acceptable substitutes may be negotiated based on interest and background.</p>	<p>Criteria for admission Students may apply for admission to the minor by contacting the <u>LARCP Academic Advisor. Admission must be completed prior to enrollment in the 9 credit hours of planning electives to receive certification of the minor.</u></p>
<p>Completion requirements Only courses with grades of C or better count toward the minor. Students must earn a cumulative 3.0 GPA (on a 4.0 scale) in the minor course work to successfully complete the minor. Ungraded course work taken for pass/fail does not qualify for inclusion in the minors program. The Department of Landscape Architecture and Regional and Community Planning will award a certificate in community planning to those students who successfully complete the minor program upon graduation from K-State.</p>	
<p>For more information Department of Landscape Architecture/Regional and Community Planning, College of Architecture, Planning and Design 785-532-5961. Specific questions may be directed to the director of the graduate program in regional and community planning.</p>	<p>For more information Department of Landscape Architecture/Regional and Community Planning, College of Architecture, Planning and Design 785-532-5961.</p>

COLLEGE OF TECHNOLOGY AND AVIATION (SALINA) (approved 11-28-11)

COURSE CHANGES

Department of Aviation

FROM: **AVM 485. Helicopter Maintenance.** (7) Summer. An advanced study of the major components of rotary-winged aircraft to include airframe, rotor, transmission and engine components of turbine and reciprocating engine helicopters. Also includes a detailed study and validation of all Federal Aviation Administration required documentation related to maintenance, historical records, and inspection of components. Three hours lecture and 12 hours lab per week. Pr.: AVM 111, 121, 131, 141, 151 or consent of instructor.

TO: **AVT 485. Helicopter Maintenance.** (3) Summer. An advanced study of the major components of rotary-winged aircraft to include airframe, rotor, transmission and engine components of turbine and reciprocating engine helicopters. Also includes a detailed study and validation of all Federal Aviation Administration required documentation related to maintenance, historical records, and inspection of components. 2 hours lecture and 4 hours lab per week. Pr.: AVM 111, 121, 131, 141, 151 or consent of instructor. K-State 8: Ethical Reasoning and Responsibility.

RATIONALE: The purpose of this change is to readjust prerequisites and credit hours. Changing this course to AVT allows for the restructuring of aviation options and electives.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

ADD: **AVT 389. Problems in Aviation.** (1 – 18) Fall, Spring, Summer. Provides the student an opportunity to apply their aviation education to the improvement of skills previously learned as designated by the instructor. K-State 8: None.

RATIONALE: This course adds flexibility to the curriculum by allowing the students to study emerging topic areas.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

ADD: **PPIL 219. Single Engine Seaplane Transition.** (1) Spring. Instruction and flight training necessary to add the seaplane rating to the commercial pilot certificate. Course requires a one-week trip to a specified contract training location. One hour lecture a week. Pr.: PPIL 213. K-State 8: None.

RATIONALE: This course allows the commercial pilot to add the airplane single engine seaplane rating to the commercial pilot certificate.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

ADD: **PPIL 315. Certified Flight Instructor Glider.** (1) Summer. Instruction techniques, practices, and procedures necessary to provide skill in organizing and presenting lessons. Prepares the student for the FAA Certified Instructor Knowledge Test Glider. One hour lecture a week. Pr.: PPIL 314. K-State 8: None.

RATIONALE: This course allows students to enhance their aeronautical knowledge and skill by providing the ground instruction necessary to pass the FAA Certified Flight Instructor-glider airman knowledge exam add-on rating to the FAA flight instructor airplane certificate.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

ADD: **PPIL 316. Certified Flight Instructor Glider Flight Lab.** (1) Summer. Provides the opportunity to apply and demonstrate concepts learned in the flight instructor glider ground instruction course (PPIL 315). Requires demonstration of flight maneuvers and the ability to recognize common errors in student performance. One hour lab a week. Pr.: PPIL 231. Coreq.: PPIL 315. K-State 8: None.

RATIONALE: This course provides the flight training to pass the FAA practical test for the Certified Flight Instructor- glider add-on rating to the FAA flight instructor airplane certificate.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

ADD: **AVT 470 Unmanned Aerial Systems Operations.** (3) Fall. Allows the UAS major to become familiar with the latest UAS technologies and their associated systems integration architectures as well as deployment procedures. Topics include: Current Federal Aviation Administration policies and regulations affecting UAS, current and emerging technologies, as well as emerging and future technologies. This course is primarily laboratory based. Pr.: AVT 460. K-State 8: None.

RATIONALE: This course is needed in order to provide an opportunity for UAS students to keep abreast of the latest UAS industry air vehicles and to allow these students to gain experience with their respective systems integration, launch, cruise, and vehicle recovery procedures.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

CURRICULUM CHANGES

Unmanned Aerial Systems Option (BATN-US)

127 Credit Hours

Fall 1st Semester – 17 credit hours

ENGL 100	Expository Writing I	3
MATH 100	College Algebra	3
PHILO 105	Introduction to Critical Thinking	3
PPIL 100	Introduction to Aviation	3
PPIL 111	Private Pilot	4
PPIL 113	Private Pilot Flight Lab	1

Spring 2nd Semester – 17 credit hours

COMM 106	Public Speaking I	3
MATH 150	Plane Trigonometry	3
PPIL 112	Professional Instrument Pilot	3
PPIL 114	Professional Instrument Plt Flt Lab I	1
PPIL 270	Introduction to Unmanned Aerial Systems	3
PPIL 342	Aviation Meteorology	4

Fall 3rd Semester – 16 credit hours

AVM 151	Aviation Maintenance Fundamentals	3
ENGL 200	Expository Writing II	3
MATH 205	General Calculus and Linear Algebra	3
PHYS 113	General Physics I	4
PPIL 360	Unmanned Aerial Systems I	3

Spring 4th Semester – 16 credit hours

ECET 100	Basic Electronics	4
ECON 110	Principles of Macroeconomics	3
ENGL 302	Technical Writing	3
PPIL 386	Aerodynamics	3
PPIL 415	Human Factors in Aviation	3

Fall 5th Semester – 15 credit hours

AVM 241	Navigational Aids and Communication Systems	3
AVT 327	Avionics Repair	3
ECET 101	Direct Current Circuits	3
PSYCH 110	General Psychology	3
	Computer Elective	3

Spring 6th Semester – 16 credit hours

BUS 315	Supervisory Management	3
CMST 250	Networking I	3
ECET 110	Semiconductor Electronics	4
MKTG 400	Introduction to Marketing	3
PPIL 460	Unmanned Aerial Systems II	3

Fall 7th Semester – 15 credit hours

STAT 325	Introduction to Statistics	3
*Aviation Elective		3
	Aviation/Computer Elective	3
	*Aviation/Electronics Elective	3
	*Humanities/Social Science/Business Elective	3

Spring 8th Semester – 14 credit hours

AVT 497	Senior Project	3
GEOG 508	Geographic Information Systems	3
PPIL 450	Aviation Safety Management	3
	*Humanities/Social Science Elective	3
	Natural Science Elective	3

*Marked electives must be upper division courses, 300 and above.

Proposed Unmanned Aerial Systems Option (BATN-US)

127 Credit Hours

Fall 1st Semester – 18 credit hours

AVT 100	Introduction to Aviation	3
ECET 100	Basic Electronics	4
ENGL 100	Expository Writing I	3
MATH 100	College Algebra	3
PPIL 111	Private Pilot	4
PPIL 113	Private Pilot Flight Lab	1

Spring 2nd Semester – 17 credit hours

AVT 242	Aviation Meteorology	4
AVT 270	Introduction to Unmanned Aerial Systems	3
COMM 106	Public Speaking I	3
MATH 150	Plane Trigonometry	3
PPIL 112	Professional Instrument Pilot	3
PPIL 114	Professional Instrument Plt Flt Lab I	1

Fall 3rd Semester – 16 credit hours

AVT 317	Composites I	3
AVT 370	Unmanned Aerial Systems I	3
ENGL 200	Expository Writing II	3
MATH 205	General Calculus and Linear Algebra	3
PHYS 113	General Physics I	4

Spring 4th Semester – 15 credit hours

AVT 340	Human Factors in Aviation	3
AVT 386	Aerodynamics	3
ECET 101	Direct Current Circuits	3
ENGL 302	Technical Writing	3
PHILO 105	Introduction to Critical Thinking	3

Fall 5th Semester – 15 credit hours

AVM 242	Navigational Aids and Communication Systems for Avionics	3
AVT 327	Avionics Repair	3
ECON 110	Principles of Macroeconomics	3
PSYCH 110	General Psychology	3
	Computer Elective	3

Spring 6th Semester – 16 credit hours

AVT 460	Unmanned Aerial Systems II	3
BUS 315	Supervisory Management	3
CMST 250	Networking I	3
ECET 110	Semiconductor Electronics	4
MKTG 400	Introduction to Marketing	3

Fall 7th Semester – 15 credit hours

AVT 470	Unmanned Aerial Systems Operations	3
STAT 325	Introduction to Statistics	3
	Aviation/Computer Elective	3
	*Aviation/Electronics Elective	3
	*Humanities/Social Science/Business Elective	3

Spring 8th Semester – 15 credit hours

AVT 450	Aviation Safety Management	3
AVT 497	Senior Project	3
*Aviation Elective		3
	*Humanities/Social Science Elective	3
	Natural Science Elective	3

*Marked electives must be upper division courses, 300 and above.

RATIONALE: The purpose of these changes is to reflect the AVT course numbering changes, readjust the courses to the correct semesters, and add in a Senior UAS Operations Course. AVM 151 was removed to add AVT 317.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2012

COLLEGE OF BUSINESS ADMINISTRATION (APPROVED 12-7-11)

Department of Marketing

Change From:

MKTG 542 Professional Selling and Sales Management

Credits: (3)

~~Focuses on interpersonal communications between buyers and sellers, both oral and written. The mechanics and intricacies of personal sales presentations, which will be developed through practice. Management of the sales force in non-retail settings including hiring, training, organizing, motivating, supervising, and evaluating sales representatives and techniques of sales forecasting.~~

Requisites

Prerequisite: MKTG 400.

When Offered

Fall, Spring

UGE course

No

K-State 8

Social Sciences

Change to:

Mktg 542 Professional Selling

Credits: (3)

Focuses on interpersonal communications between buyers and sellers, both oral and written. The mechanics and intricacies of personal sales presentations, which will be developed through practice.

Requisites

Prerequisite: MKTG 400.

When Offered

Fall, Spring

UGE course

No

K-State 8

Social Sciences

Rationale:

The Department wishes to divide the content of this course into two courses. This course (MKTG 542) will focus on interpersonal communication between buyers and sellers in the sales process. The other course is a new course being added named Sales Management (MKTG 560). This new course will focus on the management of a sales force, to include hiring, training, organizing, motivating, supervising, and evaluating

sales representatives and techniques of sales forecasting. Currently, the amount of course material is too great to be able to adequately cover in a single course.

Effective Date:

Fall 2012

NON - EXPEDITED COURSE CHANGES – COURSES NUMBERED 000-599
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Add:

MKTG 560 Sales Management

Credits: (3)

Management of the sales force in non-retail settings including hiring, training, organizing, motivating, supervising, and evaluating sales representatives and techniques of sales forecasting.

Requisites

Pre-Requisite: MKTG 542

When Offered

Spring

K-State 8 Course

Social Sciences – this course will explore ways in which individuals and groups influence one another in a sales context.

Rationale:

This new course in sales management is needed to expand course offerings in sales in support of the Marketing Department's Relational Selling Initiative. This new course (MKTG 560) will be one of a series of three sales courses offered (the other two courses being MKTG 570 – Advanced Selling (a new course) and MKTG 542 – Professional Selling (an existing course to be modified)). Currently, MKTG 542 is titled Professional Selling and Sales Management. Our intent is to move the sales management content out of MKTG 542, increase the scope of the material and offer that content in this new sales management course (MKTG 560).

Impact On Other Units:

None

Effective Date:

Fall 2012

Add:

MKTG 570 Advanced Selling

Credits: (3)

This course will provide students the opportunity to enhance their personal selling skills through advanced instruction and skill development making extensive use of role playing

and sales role play competitions. Content will include building relationships, negotiating, adaptive selling and understanding communication styles in a sales context.

Requisites

Pre-Requisite: MKTG 542 and Instructor Permission

When Offered

Spring

K-State 8 Course

Social Sciences– this course will explore ways in which individuals and groups influence one another in a sales context.

Rationale:

This new course in sales management is needed to expand course offerings in sales in support of the Marketing Department's Relational Selling Initiative. This new course (MKTG 570) will be one of a series of three sales courses offered (the other two courses being MKTG 560 – Sales Management - (a new course) and MKTG 542 – Professional Selling (an existing course to be modified)).

Impact On Other Units:

None

Effective Date:

Fall 2012

Drop:

The Agribusiness emphasis/option within the Marketing major

Rationale:

We want to discontinue the Agribusiness emphasis/option within the Marketing major since this option/sub-plan is not being utilized by students.

Impact On Other Units:

This could impact the Department of Agricultural Economics within the College of Agriculture. Dr. David Lambert, Department Head of Agricultural Economics has been notified and has given approval.

Effective Date:

Fall 2012

Agribusiness Option (127 credit hours)

Marketing majors interested in agriculture may take an option in agribusiness. Students choosing the agribusiness option complete all major field requirements for the marketing major plus hours in agribusiness.

Requirements

BAPP program (55 credit hours)

Complete the BAPP program with the following exception:

Students should take the courses listed below as their K-State 8 Natural and Physical Sciences with accompanying laboratory requirement and K-State 8 elective requirement (will total 8 credit hours instead of 7):

- ~~BIOL 198 – Principles of Biology Credits: (4)~~
- ~~and~~
- ~~CHM 110 – General Chemistry Credits: (3)~~
- ~~and~~
- ~~CHM 111 – General Chemistry Laboratory Credits: (1)~~

Business core courses (51 credit hours)

- ~~ACCTG 231 – Accounting for Business Operations Credits: (3)~~
- ~~ACCTG 241 – Accounting for Investing and Financing Credits: (3)~~
- ~~AGEC 318 – Food and Agribusiness Management Credits: (3)~~
- ~~AGEC 500 – Production Economics Credits: (3)~~
- ~~AGEC 505 – Agricultural Market Structures Credits: (3)~~
- ~~FINAN 450 – Principles of Finance Credits: (3)~~
- ~~GENBA 110 – Business Foundations Credits: (3)~~
- ~~GENBA 166 – Business Information Technology Skills Proficiency Credits: (0)~~
- ~~MANGT 420 – Management Concepts Credits: (3)~~
- ~~MANGT 421 – Introduction to Operations Management Credits: (3)~~
- ~~MANGT 595 – Business Strategy Credits: (3)~~
- ~~MANGT 596 – Business, Government, and Society Credits: (3)~~
- ~~MKTG 400 – Introduction to Marketing Credits: (3)~~
- ~~MKTG 450 – Consumer Behavior Credits: (3)~~
- ~~MKTG 542 – Professional Selling and Sales Management Credits: (3)~~
- ~~MKTG 544 – International Marketing Credits: (3)~~
- ~~MKTG 642 – Marketing Research Credits: (3)~~
- ~~MKTG 690 – Marketing Management Credits: (3)~~

Economics electives (3 credit hours)

Choose one from the following:

- ~~ECON 507 – The Japanese Economy Credits: (3)~~
- ~~ECON 510 – Intermediate Macroeconomics Credits: (3)~~
- ~~ECON 520 – Intermediate Microeconomics Credits: (3)~~
- ~~ECON 521 – Intermediate Microeconomic Theory Credits: (3)~~
- ~~ECON 523 – Human Resource Economics Credits: (3)~~
- ~~ECON 527 – Environmental Economics Credits: (3)~~
- ~~ECON 530 – Money and Banking Credits: (3)~~
- ~~ECON 536 – Comparative Economics Credits: (3)~~
- ~~ECON 540 – Managerial Economics Credits: (3)~~
- ~~ECON 555 – Urban and Regional Economics Credits: (3)~~
- ~~ECON 620 – Labor Economics Credits: (3)~~
- ~~ECON 630 – Introduction to Econometrics Credits: (3)~~
- ~~ECON 631 – Principles of Transportation Credits: (3)~~
- ~~ECON 633 – Public Finance Credits: (3)~~
- ~~ECON 640 – Industrial Organization and Public Policy Credits: (3)~~
- ~~ECON 681 – International Economics Credits: (3)~~
- ~~ECON 682 – Development Economics Credits: (3)~~
- ~~ECON 690 – Monetary, Credit, and Fiscal Policies Credits: (3)~~

Fifteen hours must be taken from the following three groups of electives:

Agribusiness electives (6 credit hours)

Choose 6 credit hours from the following:

- ~~AGEC 410 – Agricultural Policy Credits: (3)~~
- ~~AGEC 415 – The Global Agricultural Economy, Hunger, and Poverty Credits: (3)~~
- ~~AGEC 420 – Commodity Futures Credits: (3)~~
- ~~AGEC 513 – Agricultural Finance Credits: (3)~~
- ~~AGEC 515 – Food and Agribusiness Marketing Credits: (3)~~
- ~~AGEC 516 – Agricultural Law and Economics Credits: (3)~~
- ~~AGEC 520 – Market Fundamentals and Futures/Options Trading Credits: (3)~~
- ~~AGEC 525 – Natural Resource and Environmental Economics Credits: (3)~~
- ~~AGEC 598 – Farm Management Strategies Credits: (3)~~
- ~~AGEC 599 – Food and Agribusiness Management Strategies Credits: (3)~~
- ~~AGEC 605 – Price Analysis and Forecasting Credits: (3)~~
- ~~AGEC 610 – Current Agriculture and Natural Resource Policy Issues Credits: (3)~~

- ~~AGEC 623 – International Agricultural Trade Credits: (3)~~
- ~~AGEC 632 – Agribusiness Logistics Credits: (3)~~
- ~~AGEC 680 – Risk Management Credits: (3)~~

Agricultural sciences and/or product technology electives (6-8 credit hours)

Choose 6-8 credit hours from the following:

- ~~AGRON 220 – Crop Science Credits: (4)~~
- ~~or~~
- ~~HORT 201 – Principles of Horticultural Science Credits: (4)~~
- ~~AGRON 305 – Soils Credits: (4)~~
- ~~AGRON 340 – Grain Grading Credits: (2)~~
- ~~AGRON 501 – Range Management Credits: (3)~~
- ~~ASI 102 – Principles of Animal Science Credits: (3)~~
- ~~and~~
- ~~ASI 105 – Animal Sciences and Industry Credits: (1)~~
- ~~or~~
- ~~ASI 106 – Dairy and Poultry Science Credits: (1)~~
- ~~ASI 350 – Meat Science Credits: (3)~~
- ~~ASI 361 – Meat Animal Processing Credits: (2)~~
- ~~ASI 405 – Fundamentals of Milk Processing Credits: (3)~~
- ~~ENTOM 300 – Economic Entomology Credits: (2 or 3)~~
- ~~ENTOM 305 – Animal Health Entomology Credits: (2)~~
- ~~FDSCI 302 – Introduction to Food Science Credits: (3)~~
- ~~FDSCI 305 – Fundamentals of Food Processing Credits: (3)~~
- ~~FDSCI 430 – Food Products Evaluation Credits: (3)~~
- ~~FDSCI 500 – Food Science Seminar Credits: (1)~~
- ~~FDSCI 694 – Food Plant Management Credits: (3)~~
- ~~FOR 285 – Forest Resource Management Credits: (3)~~
- ~~GRSC 150 – Principles of Milling Credits: (3)~~
- ~~HN 132 – Basic Nutrition Credits: (3)~~
- ~~HN 301 – Food Trends, Legislation, and Regulation Credits: (3)~~
- ~~PLPTH 500 – Principles of Plant Pathology Credits: (3)~~

Additional agribusiness option electives (1-3 credit hours)

Select additional courses from agribusiness electives and agricultural sciences and/or product technology electives to total 16 credit hours.

COLLEGE OF HUMAN ECOLOGY (APPROVED 12-8-11)

Non-Expedited UNDERGRADUATE Curriculum Change

Department of Human Nutrition

Nutritional Sciences

CHANGE FROM:	CHANGE TO:
<p>Human Nutrition (B.S.)-Nutritional Sciences</p> <p>General requirements (61-62 credit hours)</p> <p>Communications (11-12 credit hours)</p> <p>ENGL 100 - Expository Writing I Credits: (3)</p> <p>ENGL 200 - Expository Writing II Credits: (3)</p> <p>ENGL 516 - Written Communication for the Sciences Credits: (3)</p> <p>One of the following courses</p> <p>COMM 105 - Public Speaking IA Credits: (2)</p> <p>or</p> <p>COMM 106 - Public Speaking I Credits: (3)</p> <p>Social Science (9 credit hours)</p> <p>ECON 110 - Principles of Macroeconomics Credits: (3)</p> <p>PSYCH 110 - General Psychology Credits: (3)</p> <p>SOCIO 211 - Introduction to Sociology Credits: (3)</p> <p>Humanities electives (6 credit hours)</p> <p>Natural Sciences (28 credit hours)</p> <p>Biological Sciences (20 credit hours)</p> <p>BIOL 198 - Principles of Biology Credits: (4)</p> <p>BIOL 340 - Structure and Function of the Human Body Credits: (8)</p>	<p>Human Nutrition (B.S.)-Nutritional Sciences</p> <p>General requirements (61-62 credit hours)</p> <p>Communications (11-12 credit hours)</p> <p>ENGL 100 - Expository Writing I Credits: (3)</p> <p>ENGL 200 - Expository Writing II Credits: (3)</p> <p>ENGL 516 - Written Communication for the Sciences Credits: (3)</p> <p>One of the following courses</p> <p>COMM 105 - Public Speaking IA Credits: (2)</p> <p>or</p> <p>COMM 106 - Public Speaking I Credits: (3)</p> <p>Social Science (9 credit hours)</p> <p>ECON 110 - Principles of Macroeconomics Credits: (3)</p> <p>PSYCH 110 - General Psychology Credits: (3)</p> <p>SOCIO 211 - Introduction to Sociology Credits: (3)</p> <p>Humanities electives (6 credit hours)</p> <p>Natural Sciences (28 credit hours)</p> <p>Biological Sciences (20 credit hours)</p> <p>BIOL 198 - Principles of Biology Credits: (4)</p> <p>BIOL 340 - Structure and Function of the Human Body Credits: (8)</p>

<p>BIOL 450 - Modern Genetics Credits: (4) BIOL 455 - General Microbiology Credits: (4)</p> <p>Physical Sciences (8 credit hours)</p> <p>PHYS 113 - General Physics I Credits: (4) PHYS 114 - General Physics II Credits: (4)</p> <p>Quantitative Studies (7 credit hours)</p> <p>MATH 220 - Analytic Geometry and Calculus I Credits: (4) One of the following courses</p> <p>STAT 325 - Introduction to Statistics Credits: (3) or STAT 340 - Biometrics I Credits: (3)</p> <p>Professional studies (31 credit hours) <i>(Grades of C or higher required.)</i></p> <p>HN 132 - Basic Nutrition Credits: (3) HN 400 - Human Nutrition Credits: (3) HN 413 - Science of Food Credits: (4) HN 450 - Nutritional Assessment Credits: (2) HN 510 - Life Span Nutrition Credits: (3) HN 535 - Energy Balance Credits: (2) HN 600 - Public Health Nutrition Credits: (3) HN 620 - Nutrient Metabolism Credits: (3) HN 631 - Clinical Nutrition I Credits: (2) HN 632 - Clinical Nutrition II Credits: (3) One of the following courses</p> <p>FSHS 350 - Family Relationships and Gender Roles Credits: (3) or GNHE 310 - Human Needs Credits: (3)</p>	<p>BIOL 450 - Modern Genetics Credits: (4) BIOL 455 - General Microbiology Credits: (4)</p> <p>Physical Sciences (8 credit hours)</p> <p>PHYS 113 - General Physics I Credits: (4) PHYS 114 - General Physics II Credits: (4)</p> <p>Quantitative Studies (7 credit hours)</p> <p>MATH 220 - Analytic Geometry and Calculus I Credits: (4) One of the following courses</p> <p>STAT 325 - Introduction to Statistics Credits: (3) or STAT 340 - Biometrics I Credits: (3)</p> <p>Professional studies (31 credit hours) <i>(Grades of C or higher required.)</i></p> <p>HN 132 - Basic Nutrition Credits: (3) HN 400 - Human Nutrition Credits: (3) HN 413 - Science of Food Credits: (4) HN 450 - Nutritional Assessment Credits: (2) HN 510 - Life Span Nutrition Credits: (3) HN 535 - Energy Balance Credits: (2) HN 600 - Public Health Nutrition Credits: (3) HN 620 - Nutrient Metabolism Credits: (3) HN 631 - Clinical Nutrition I Credits: (2) HN 632 - Clinical Nutrition II Credits: (3) One of the following courses</p> <p>FSHS 350 - Family Relationships and Gender Roles Credits: (3) or GNHE 310 - Human Needs Credits: (3)</p>
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<p>Supporting courses (21 credit hours)</p> <p><i>(Grades of C or higher required)</i></p> <p>BIOCH 521 - General Biochemistry Credits: (3)</p> <p>BIOCH 522 - General Biochemistry Laboratory Credits: (2)</p> <p>CHM 210 - Chemistry I Credits: (4)</p> <p>CHM 230 - Chemistry II Credits: (4)</p> <p>CHM 531 - Organic Chemistry I Credits: (3)</p> <p>CHM 532 - Organic Chemistry Laboratory Credits: (2)</p> <p>CHM 550 - Organic Chemistry II Credits: (3)</p> <p>Unrestricted electives (10-11 credit hours)</p> <p>Total credit hours required for graduation (124)</p>	<p>Supporting courses (21 credit hours)</p> <p><i>(Grades of C or higher required)</i></p> <p>BIOCH 521 - General Biochemistry Credits: (3)</p> <p>BIOCH 522 - General Biochemistry Laboratory Credits: (2)</p> <p>CHM 210 - Chemistry I Credits: (4)</p> <p>CHM 230 - Chemistry II Credits: (4)</p> <p>CHM 531 - Organic Chemistry I Credits: (3)</p> <p>CHM 532 - Organic Chemistry Laboratory Credits: (2)</p> <p>CHM 550 - Organic Chemistry II Credits: (3)</p> <p>Unrestricted electives (<u>6-7</u> credit hours)</p> <p>Total credit hours required for graduation (<u>120</u>)</p>
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Rationale: Reduce total credit hours from 124 to 120.

Effective: Spring 2012

Impact: None

GRADUATE COURSE CHANGES

Graduate Council Approved on November 1 and December 6, 2011

Course Change

<p>FROM: MC 685 – Media Management. (3) I. 100% Lecture: Issues, ethics and practices in managing media companies, with special emphasis on problems and practices in converged media operations. Pr.: Junior standing.</p>	<p>TO: MC 585– Media Management. (3) I. 100% Lecture: Issues, ethics and practices in managing media companies, with special emphasis on problems and practices in converged media operations. Pr.: Junior standing. <u>K-State 8: Global Issues and Perspectives; Social Science.</u></p> <p>RATIONALE: This is one of a series of courses we have changed to create a group of 500- level courses, thereby parceling out the graduate component of the previously 600- level course, including History of Journalism, Ethics in Mass Communications and International Communication. By lowering the number, the class attracts more undergraduates in our major. We are also in a position to offer it to more students in our minor. In a small class, laboratory setting more time can be devoted to the practical applications of managing media organizations and the ability to utilize business-related databases. For the undergraduate class, the course description would essentially remain the same, as would the pre-requisite of junior standing.</p> <p>EFFECTIVE DATE: Spring 2012</p>
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New Courses

English

ADD: ENGL 756 – Business Communication. (3) I, II, S. A writing-intensive course intended for advanced undergraduate students, graduate students, and working professionals in business. Pr.: ENGL 200 or 210 or 415 or 417 or 516 or graduate standing.

RATIONALE: ENGL 756 will meet the needs of students enrolled in professional degree programs, particularly students enrolled in M.A. degree programs, including Business Administration, Accountancy, and Agribusiness. A pilot course for Food Science, offered under the rubric course ENGL 604 “Expository Writing Workshop,” has seen steady and increasing enrollment, and it should now be offered under a dedicated course and title. ENGL 756 may be offered face-to-face or online, since many of these students have professional commitments and face scheduling and commuting constraints.

IMPACT: Dr. Charlie Griffin, Head of CSTD, has reviewed the proposed course and supports its creation.

EFFECTIVE DATE: Spring 2012

ADD: ENGL 758 – Scientific Writing. (3) I, II, S. A writing-intensive course intended for advanced undergraduate students, graduate students and working professionals in science. Pr.: ENGL 200 or 210 or 415 or 417 or 516 or graduate standing.

RATIONALE: ENGL 758 will meet the needs of students enrolled in professional degree programs, particularly students enrolled in M.A, degree programs, including Food Science and Agribusiness. A pilot course for Food Science, offered under the rubric course ENGL 604 “Expository Writing Workshop,” has seen steady and increasing enrollment, and it should now be offered under a dedicated course and title. ENGL 758 may be offered face-to-face or online, since many of these students have professional commitments and face scheduling and consulting constraints.

IMPACT: Dr. Charlie Griffin, Head of CSTD, has reviewed the proposed course and supports its creation.
EFFECTIVE DATE: Spring 2012

FSHS 724: The Army Family: from Challenge to Resilience

Credits: (3)

Study of the culture and complexities of the contemporary Army family, and the issues related to community-based support and service to Army family members.

When Offered

Summer

RATIONALE: There is a growing number of positions available to students who have understanding of the military culture. This class equips them to move in to these jobs. This course has been successfully taught three semesters with an average of six distance graduate students completing the course each of those semesters.

EFFECTIVE DATE: Summer 2012

EDACE 765 Adult Learners and Integrating Technology into Curriculum. (3) I, II, S. This course includes an in-depth study of methods for integrating innovative technologies into the curriculum for adult learners. With an indepth understanding of adult learners, students will analyze learning theories and appropriate technologies for revlevance, effectiveness, and alignment with course curriculum.
Recommended Prerequisite: EDACE 790.

IMPACT: None

RATIONALE: With a new certificate program focused on adult learners and curriculum development, it is important to address the appropriate integration of technology.

EFFECTIVE DATE: Summer 2012

EDACE 785 Designing Classroom Instruction and Curriculum for Adult Learners. (3) I, II, S. This course focuses on the systematic approach to instructional design for adult learners. A comprehensive discussion of all major components of curriculum design from instructional objectives, course sequencing, instructional strategies, formative assessments and summative evaluations will be included. A major focus will also be on transfer of learning. Recommended Prerequisites: EDACE 765 and EDACE 790.

RATIONALE: With a new certificate program focused on adult learners and curriculum development, it is important to offer a course on curriculum design for the target population.

EFFECTIVE DATE: Fall 2012

EDCI 781 Teaching the Theoretical Foundations of Constitutional Government. (1) I, II, S. Examines the theories (e.g., natural rights, classical republicanism, and constitutionalism) and theorists (e.g., Aristotle, Locke, Hobbes, and Montesquieu) that most influenced constitutional thinking in the United States. Explores how to teach effectively about these theories and theorists.

IMPACT: None

RATIONALE: This course is offered every semester and is one of number of courses being developed that might comprise a new specialty area in Curriculum and Instruction, "Civic Education." The course fulfills a need for high quality professional development in social studies education. The course may be attractive to graduate students outside of education who are interested in teaching and learning about political ideas and principles.

EFFECTIVE DATE: Spring 2012

EDCI 782 Teaching the Historical Origins of Constitutional Government. (1) I, II, S. Examines seminal ideas, documents, and events in the creation of the United States Constitution such as problems with the Articles of Confederation, the characteristics of good government, the debates at the Philadelphia Convention, the Federalist Papers, and the Antifederalist Papers. Explores how to teach effectively these ideas, documents, and events.

IMPACT: None

RATIONALE: This course is offered every semester and is one of number of courses being developed that might comprise a new specialty area in Curriculum and Instruction, "Civic Education." The course fulfills a need for high quality professional development in social studies education. The course may be attractive to graduate students outside of education who are interested in teaching and learning about political ideas and principles.

EFFECTIVE DATE: Spring 2012

EDCI 783 Teaching the Development of Constitutional Principles. (1) I, II, S. Examines the development of political ideas and constitutional thinking since the Founding. Focuses on how the Bill of Rights, the amendment process, judicial review, and the Fourteenth Amendment are used to empower and limit government. Explores how to teach effectively about developments in constitutional thought.

IMPACT: None

RATIONALE: This course is offered every semester and is one of number of courses being developed that might comprise a new specialty area in Curriculum and Instruction, "Civic Education." The course fulfills a need for high quality professional development in social studies education. The course may be attractive to graduate students outside of education who are interested in teaching and learning about political ideas and principles

EFFECTIVE DATE: Spring 2012

EDCI 784 Teaching the Institutions of Government. (1) I, II, S. Examines the powers, limits, and development of political institutions such as Congress, the President, the Supreme Court, and political parties. Explores how to teach effectively about these institutions.

IMPACT: None

RATIONALE: This course is offered every semester and is one of number of courses being developed that might comprise a new specialty area in Curriculum and Instruction, "Civic Education." The course fulfills a need for high quality professional development in social studies education. The course may be attractive to graduate students outside of education who are interested in teaching and learning about political ideas and principles.

EFFECTIVE DATE: Spring 2012

EDCI 785 Teaching the Bill of Rights. (1) I, II, S. Examines the rights protected by the United States Constitution and the ways that rights empower citizens, limit government, and contribute to constitutional government. Explores how to teach effectively about rights.

IMPACT: None

RATIONALE: This course is offered every semester and is one of number of courses being developed that might comprise a new specialty area in Curriculum and Instruction, "Civic Education." The course fulfills a need for high quality professional development in social studies education. The course may be attractive to graduate students outside of education who are interested in teaching and learning about political ideas and principles.

EFFECTIVE DATE: Spring 2012

EDCI 787 Teaching Citizenship. (1) I, II, S. Examines development of the rights, responsibilities, and challenges of citizenship in the United States. Explores how to teach effectively about citizenship.

IMPACT: None

RATIONALE: This course is offered every semester and is one of a number of courses being developed that might comprise a new specialty area in Curriculum and Instruction, "Civic Education." The course fulfills a need for high quality professional development in social studies education. The course may be attractive to graduate students outside of education who are interested in teaching and learning about political ideas and principles.

EFFECTIVE DATE: Spring 2012

EDCI 794 Advanced Methods of Teaching. (3) I, II, S. Examines popular theories, important principles, research-based strategies, and best practices associated with effective teaching. Provides a venue to apply theory to practice; connect ideas and actions; and link content and pedagogy.

IMPACT: None

RATIONALE: This course has been offered every summer since 2008. The course fulfills the Curriculum and Instruction requirement in "Teaching and Learning." This course might also be attractive to graduate students outside of education who are interested in teaching and learning.

EFFECTIVE DATE: Spring 2012

ADD: **MC 760 – Communication and Risk.** (3) I. Promotes understanding of strategic communication and media as tools to prepare, mitigate, and respond to threats to public health and safety. Pr.: Graduate standing, or instructor permission with a 2.5 GPA.

RATIONALE: This class is a key component in the School’s newfound focus in health and strategic communication. Risk communication is a growing field, as evidenced by the fact that several universities have established courses, programs, and other collaborations in the field (Cornell, Michigan State, Maryland and Washington, among others), and several publications exist that address the scholarship surrounding risk communication. Other key indicators of the growing importance of risk communication include the fact that an interest group has been established in the Association for Education in Journalism and Mass Communications, the leading academic organization in our field. Several Miller School faculty members regularly research topics in this area and present their findings at AEJMC and other academic organizations, and publish their results in leading academic journals. This class is currently being taught under the trial number MC 740 and has drawn students from a wide background, including Public Health, Communication Studies and Journalism and Mass Communications. The class has been listed among the courses in the interdisciplinary Public Health master’s program on campus.

IMPACT: We see no negative impact on other campus curricula. We have contacted administrators in two departments, Steve Harbstreet, curriculum coordinator for Agricultural Communications (presently an undergraduate program): and Charles Griffin, head of Communication Studies. Both have consulted their faculty and report that there are no concerns with this course being added to the curriculum; in fact, students from both areas are currently taking the MC 740 version of this class.

EFFECTIVE DATE: Fall 2012

ADD: **MC 785 – Issues in Media Management.** (3) I. Seminar in the analysis of issues in media management and media economics research and practices. Issues include leadership in converged media organizations, market research in media organizations, motivational behaviors in media organizations and developments in new technology as they relate to managing media organizations. Pr.: graduate standing or instructor permission.

RATIONALE: The Curriculum Committee and the JMC faculty have voted to create a new course at the graduate level in Issues in Media Management. Currently, graduate students take the class along with undergraduates in a 600-level course. We voted to split the class because we view it as a disservice to students and faculty to try to accommodate both groups in one class. Since media management is becoming an increasingly important field with numerous changes taking place in the media landscape, the class has become increasingly popular with our graduate students. As such, there is a need to create the separate section so that media management theory and research can be adequately explored. Research in media management and economics has developed significantly since the 1980’s, with a number of journals both national and international devoted to this area of study. A 700-level course will enable our students to develop expertise and a research agenda in this field, as well as enable them to study concepts and issues in more depth.

IMPACT: No impact; we are dividing one course in Media Management that we already offer into two courses, with the additional course to be offered at the graduate level.

EFFECTIVE DATE: Fall 2012

ADD: **MATH 705 – Computational Math.** (3) I. Topics from complex analysis, vector calculus, higher-dimensional calculus, ordinary differential equations, linear algebra, and geometry of curves. Pr.: MATH 222

RATIONALE: The course is intended to prepare first-year graduate students for the Computational Mathematics component of the department's basic exam.

EFFECTIVE DATE: Fall 2012

ADD: **SPAN 600 – Introduction to Linguistics.** (3) I, II. Introduction to the fundamentals of linguistic analysis, including the sound system, word and sentence formation, and semantic and pragmatic meaning. Formal and usage-based perspectives. Application of linguistics to language acquisition theory and to pedagogy. Taught in Spanish. Pr.: Minimum of 3 hours at the 500 level or equivalent.
K-State 8: Aesthetic Experience and Interpretive Understanding; Ethical Reasoning and Responsibility.

RATIONALE: This course will serve as an introduction to linguistics for our Spanish majors and minors. It will also serve as a graduate-level course option for our Spanish Second Language Acquisition M.A. candidates. Currently, the Spanish section offers graduate-level seminars in linguistics for our M.A. candidates; however, undergraduate enrollment is restricted in those courses due to the students not meeting prerequisite requirements. This course will allow students interested in linguistics to solidify basic concepts before attempting the 700-level seminars (3 700-level courses are required for graduation with a B.A.).

IMPACT: None

EFFECTIVE DATE: Spring 2012

ADD: **PHYS 741 – The Physics of Lasers.** (3) As needed. The theory of lasers including Light-matter interactions, atomic rate equations, threshold and oscillation; resonators and cavity modes; and laser dynamics including Q-switching and mode-locking. Pr.: PHYS 651 and PHYS 652.

RATIONALE: This new course will partially replace PHYS 841 – Lasers and Quantum Optics, which regards a combination of topics that is best handled by two courses and which has not been taught in a number of years. A graduate level course on laser physics has been taught several times over the past few years as a special topics course (PHYS 707 – Topics in Physics). The enrollment was high in all such offerings. This result and the fact that many of our graduate students require a rigorous laser physics class prior to doing research in this area indicate that this course should be given a permanent course number. The justification for requesting the number 741 is so that undergraduates will not need special permission to take this course provided they meet the pre-requisites: PHYS 651- Introduction to Optics and PHYS 652 – Applied Optics & Optical Measurements.

IMPACT: None

EFFECTIVE DATE: Spring 2012

ADD: **PHYS 775 – Biological Physics.** (3) As needed. This lecture course introduces basic cellular biology for students lacking a biological background and established connections between molecular and cellular phenomena (such as photosynthesis, cellular foraging, and nerve stimulation) and experimentally verifiable models built from physical (classical, statistical, and quantum mechanical, as well as electromagnetic) considerations. Pr.: PHYS 664.

RATIONALE: Currently we offer Biological Physics as either a special topics course (PHYS 707 – Topics in Physics) or as an advanced problems course (PHYS 808 - Advanced Problems) that is jointly offered with undergraduate course PHYS 400 – Independent Study. With three biological physicists in the department, it is appropriate to give this course a permanent number, as it will be necessary to offer this course semi-regularly in order to prepare students for research in this field. The course number 775 is chosen to be consistent with an advanced undergraduate/graduate course that is based heavily on thermodynamics, as this unused number lies in the range x60-x90 where the other thermodynamics and statistical mechanics-based courses are numbered (e.g. PHYS 971 – Statistical Mechanics, PHYS 881 – Intro to Solid State).

IMPACT: None

EFFECTIVE DATE: Spring 2012

ADD: **PHYS 870 – Nonlinear and Quantum Optics.** (3) As needed. Theory and applications of nonlinear optics: difference and sum frequency generation; ultrashort pulse characterizations; third order effects; Raman scattering; and higher harmonic generation. Fundamentals of quantum optics including field quantization; coherent state; nonclassical light; and optical tests of quantum mechanics. Pr.: PHYS 633, 652, and 709.

RATIONALE: In conjunction with another new course PHYS 741 – Physics of Lasers, this new course will replace PHYS 841 – Lasers and Quantum Optics, which regards a combination of topics that is best handled by two courses and which has not been taught in a number of years. A graduate level course on nonlinear and quantum optics has been taught several times over the past few years as a special topics course (PHYS 953 – Advanced Topics in Atomic Interactions). The enrollment was high in all such offerings. This result and the fact that many of our graduate students require a rigorous advanced optics class prior to embarking on their doctoral research projects indicate that this course should be given a permanent course number. The prerequisites for this course will be PHYS 633- Electromagnetic Fields II, PHYS 652- Applied Optics and Optical Measurement, and PHYS 709 – Applied Quantum Mechanics.

IMPACT: None

EFFECTIVE DATE: Spring 2012

ADD: **SOCIO 645 – Post-Communist Societies.** (3) II. Analysis of divergent scenarios of post-communist social transformation, primarily in the countries of Eastern Europe and Eurasia. Discussion of the history of communist societies, changing social institutions, and social stratification in the post-communist contexts. Examines post-communist space and mobility, class and gender inequalities, political democratization, youth culture and prospects, crime, global connections of the transformation, human rights and civil society, security and conflict, religion and ethnicity, and the changing family. Pr.: SOCIO 211.

RATIONALE: This course is designed for senior level undergraduate and graduate students with an interest in social transformation in post-communist countries of Eastern Europe and Eurasia. It has been previously taught once as SOCIO 500/701 in Spring 2010 as a gateway course for a study abroad program (Post-Communist Societies Study Tour), and it is scheduled to be taught in Spring 2012. The course fits well with the academic goals of sociology program, particularly its specializations in international development and social change. This course adds a needed dimension of area studies to the existing focus on international development in sociology program. The course would be interesting to non-majors who are interested in sociological perspective on post-communist transformations.

IMPACT: Departments of History and Political Science were contacted in order to assess the impact since they offer courses on Russian and Eastern Europe. There were no objections to the proposed course.

Prof. Herspring (Political Science) wrote “I have no objection to your teaching such a class, it is clearly missing. We have courses in history, and politics, but nothing in the area of sociology. I am in the process of changing my course to make it less historical, but I am currently swamped with a book I am trying to finish.”

Prof. Stone (History) wrote: “Thank you for passing along the syllabus for your Post-Communist Societies (Socio 645). This does not duplicate any history department offerings. Because of its emphasis on the period after 1989/1991, there is very little chronological overlap with my courses on 20th-century Russia (Hist 592) and 20th-century Eastern Europe (Hist 582). In addition, since its focus is on society and sociological methods, there’s relatively little thematic overlap. The only impact would be a positive one, since it would give students interested in exploring the former Soviet bloc an additional course to take.

EFFECTIVE DATE: Spring 2013