

Attachment 1
Academic Affairs
Consent Agenda Supplemental Information

College of Business Administration (October 27, 2015)

Pages 2-3

College of Education (October 27, 2015)

Page 4

College of Human Ecology (October 30, 2015)

Page 5

College of Agriculture (November 4, 2015)

Pages 6-35

College of Technology and Aviation – K-State Polytechnic (November 6, 2015)

Pages 36-48

Graduate Course and Curriculum changes (11-3-15)

Pages 49-63

College of Business Administration (October 27, 2015)

Department of Management

New Course:

MANGT 580 – K-State MIS: Health Info Sys Portfolio I

Credits: (9)

This course serves a mechanism to indicate students have completed a series of Health Information Systems courses at Johnson County Community College in the process of completing their Associate's Degree. It is used solely for transfer credit tracking and fulfills the thematic sequence requirement in the College of Business. Students cannot enroll in this class nor can this course be transferred into programs other than Management Information Systems in the College of Business Administration.

Requisites

Prerequisite: Associates Degree in Health Information Systems from JCCC

When Offered

Fall, Spring, Summer

UGE course

No

K-State 8

No

Rationale

This course will be used to indicate and track which College of Business Administration students have completed their thematic sequence through the JCCC Health Information Systems Program.

Impact on Other Units

None

Effective Date

Fall 2016

New Course:

MANGT 581 – K-State MIS: Health Info Sys Portfolio II

Credits: (15)

This course serves a mechanism to indicate students have completed a series of Health Information Systems courses at Johnson County Community College in the process of completing their Associate's Degree. It is used solely for transfer credit tracking and fulfills the unrestricted electives requirement in the College of Business. Students cannot enroll in this class nor can this course be transferred into programs other than Management Information Systems in the College of Business Administration.

Requisites

Prerequisite: Associates Degree in Health Information Systems from JCCC

When Offered

Fall, Spring, Summer

UGE course

No

K-State 8

No

Rationale

This course will be used to indicate and track which College of Business Administration students have completed their unrestricted electives through the JCCC Health Information Systems Program.

Impact on Other Units

None

Effective Date

Fall 2016

College of Education (October 27, 2015)

Non-Expedited Undergraduate Curriculum Change Curriculum and Instruction

Business Education Teaching Field (EDBUS)

From:

Teaching Field—Business

ACCTG 231 Accounting for Business Operations (3)
ACCTG 241 Accounting for Investing and Finance (3)
FINAN 450 Principles of Finance (3)
MANGT 390 Business Law I (3)
MANGT 420 Management Concepts (3)
ENTRP 340 Intro to Entrepreneurship (3)
MKTG 400 Marketing (3)
MKTG 450 Consumer Behavior (3)
MKTG 542 Prof Selling and Sales Mgmt (3)
-OR-
COMM 311 Business and Prof Speaking (3)
EDSEC 315 Admin Data Applications (3)
EDSEC 471 Office Systems and Processes (3)
EDCI 737 Practicum Bus & Office Occup (1)

Supporting Courses:

FSHS 105 Intro to Personal & Family Finance (3)
-OR-
FSHS 400 Family and Consumer Economics (3)
ECON 110 Principles of Macroeconomics (3)
ECON 120 Principles of Microeconomics (3)
CIS 111 Fundamentals of Computer Prog (3)

Additional Teacher Education Courses:

EDSEC 620 Prin & Phil of Career & Tech Ed (3)
EDSEC 621 Program Plan in Career & Tech Ed (3)

To:

Teaching Field—Business

ACCTG 231 Accounting for Business Operations (3)
ACCTG 241 Accounting for Investing and Finance (3)
FINAN 450 Principles of Finance (3)
MANGT 390 Business Law I (3)
MANGT 420 Management Concepts (3) (3)
ENTRP 340 Intro to Entrepreneurship (3)
MKTG 400 Marketing (3)
MKTG 450 Consumer Behavior (3) (3)
MKTG 542 Prof Selling and Sales Mgmt (3)
-OR-
COMM 311 Business and Prof Speaking (3)

GENBA 166 Business Information Technology Skills Proficiency (0)
MANGT 366 Information Technology for Business (3)

MANGT 595 Business Strategy (3)

Supporting Courses:

PEP 105 Intro to Personal & Family Finance (3)
-OR-
PEP 400 Family and Consumer Economics (3)
ECON 110 Principles of Macroeconomics (3)
ECON 120 Principles of Microeconomics (3)
CIS 111 Fundamentals of Computer Prog (3)

-OR-

MANGT367 Information Systems Fundamentals (3)

Additional Teacher Education Courses:

EDSEC 620 Prin & Phil of Career & Tech Ed (3)
EDSEC 621 Program Plan in Career & Tech Ed (3)

IMPACT: Met and discussed with Dr. Stacey Kovar, Associate Dean, College of Business. Dean Kovar helped to create this updated licensure field. Documentation of this collaboration is attached.

RATIONALE: This proposal is designed to update the Secondary Business licensure program to meet current needs, updated standards, as well as changing personnel in the Department of Curriculum and Instruction.

EFFECTIVE DATE: Fall 2016

College of Human Ecology (October 30, 2015)

College of Human Ecology

Course Add
DHE 195 CAT Community Connections
Credits: (1-3)
Interdisciplinary course that explores the connections among two different fields, courses, or disciplines. For first-year students enrolled in a specific CAT Community linked to the College of Human Ecology programs.
When Offered: Spring, Fall

Rationale: We have been using the DAS 195 for this course due to the fact that the College of Human Ecology only had one CAT community initially. We now have three CAT communities with a fourth in development for 2016-17. The course needs its own permanent course designation in the catalog for the College of Human Ecology CAT communities.

IMPACT: The College of Arts and Sciences, Associate Dean Louis Benjamin was contacted on September 14, 2015 regarding the development of DHE 195 and moving the current CAT community connection courses from Arts and Sciences to Human Ecology that are with our degree areas. She responded by email with support and approval on September 15, 2015.

Effective: Fall 2016

College of Agriculture (November 4, 2015)

Communication and Agricultural Education

ADD: GENAG 225. Fundamentals of Global Food Systems Leadership (3) Fall, Spring. An interdisciplinary approach to the fundamental roles people, policies, and cultures play in the global food system enterprise as it relates to sustainable food production, processing, distribution, and availability. Students will explore complexities within self, others, and community related to leadership in the context of a rapidly increasing global population. K-State 8: Global Issues and Perspectives

RATIONALE: This course explores the fundamentals of Global Food Systems Leadership from an interdisciplinary approach. It is the first of three core courses specifically for the secondary major. It sets the stage for students to choose their concentration courses.

K-STATE 8 RATIONALE: This course will introduce students to values, perspectives, beliefs, behaviors, policies and customs impacting global food and agricultural production systems.

IMPACT: Crosslisted as LEAD 225, DAS 225. No impact on other units.

EFFECTIVE DATE: Spring 2017

ADD: GENAG 325. Uncertainty in Global Food Systems Leadership (3) Spring. Explore technical and adaptive elements of grand challenges across disciplines. This course addresses the impact of cultural identity, life experience, and world views on leadership relationships as it relates to privilege and inclusion in the context of global food systems. Students will consider elements of community-engaged work. Prerequisite: GENAG 225 or LEAD 225 or DAS 225.

RATIONALE: This course considers the human dimensions of Global Food Systems Leadership in addition to other complex systems. It is the second of three core classes in the secondary major. It lays the foundation for the students' community-engaged scholarship.

IMPACT: Crosslisted as LEAD 325, DAS 325. No impact on other units.

EFFECTIVE DATE: Spring 2017

ADD: GENAG 425. Global Food Systems Leadership in Action (3) Fall. In this capstone course, students will conduct a community-engaged global food systems leadership research/service project. Emphasis will be placed on data collection, analysis and dissemination to appropriate audiences. Additional emphases will be on ethical dimensions of leadership and individual exploration of careers and roles within global food systems. Prerequisite: GENAG 325 or LEAD 325 or DAS 325

RATIONALE: This course gets students actively working on community-engaged scholarship related to Global Food Systems Leadership. It is the last of three core courses for the secondary major.

IMPACT: Crosslisted as LEAD 425, DAS 425. No impact on other units.

EFFECTIVE DATE: Spring 2017

Agronomy

ADD: AGRON 202. Introduction to Precision Ag Software. (3) Spring. Introduction to software commonly used for the management and analysis of various forms of agronomic data pertaining to soils, crops, and weather for the purpose of generating site-specific recommendations in crop production. K-State 8: Empirical and Quantitative Reasoning.

RATIONALE: The faculty in the Department of Agronomy are currently creating a new precision agriculture option within the agronomy major to strengthen the program and add additional courses to meet the educational needs of students that will enter agriculture industry. This course will target undergraduate students in agronomy to provide training on currently utilized software packages for managing and analyzing agronomic data.

K-STATE 8
RATIONALE: This course teaches students to analyze and interpret agronomic data and to make management decisions based on the analysis and interpretation.

IMPACT: No impact on other departments outside the College of Agriculture.

EFFECTIVE DATE: Spring 2017

ADD: AGRON 502. International Experience in Agronomy. (0-6) Spring. Students will apply knowledge gained in their undergraduate curriculum in a culminating learning experience focused on international crops, soils, and agronomic systems. Topics vary by offering depending on the agronomic systems studied and locations visited. Prerequisite: 14 hours in AGRON including AGRON 220 and AGRON 305. K-State 8: Global Issues and Perspectives.

RATIONALE: The Department of Agronomy 2025 Strategic Action Plan includes goals to “Actively encourage international experiences for students” and include 10% of our undergraduate students in an international education experience each year. This course will provide a mechanism to develop and offer international education experiences. The course will also provide the means to regularly advertise international experiences, encourage student participation in international experiences, and track student participation in these experiences.

K-STATE 8
RATIONALE: This course provides international travel experiences that expose students to global cultural experiences. Students will explore global issues and discuss global perspectives during their travel.

IMPACT: No impact on other departments outside the College of Agriculture.

EFFECTIVE DATE: Spring 2017

Animal Sciences and Industry

FROM: ASI 400. Farm Animal Reproduction. (3) Fall and Spring. Basic reproductive anatomy and physiology of cattle, horses, pigs, poultry, and sheep during the first half of the semester provides a solid basis for reproduction management topics which occupy the second half of the course. Prerequisite: ASI 102.

TO: ASI 400. Farm Animal Reproduction. (3) Fall and Spring. Basic reproductive anatomy and physiology of cattle, horses, pigs, poultry, and sheep during the first half of the semester provides a solid basis for reproduction management topics which occupy the second half of the course. Prerequisite: ASI 102, BIOL 198 & Sophomore standing.

RATIONALE: The proposed prerequisite changes better reflect expected background information and experience helpful to understand course concepts.

IMPACT: The Biology department was contacted and is supportive of this change as BIOL 198 is a required course for ASI majors and there will be no net change in enrollment in BIOL 198.

EFFECTIVE: Fall 2016

Horticulture, Forestry, and Recreational Resources
Horticulture

ADD: HORT 595. Horticulture Study Abroad. (3) Fall, Spring and Summer. Seminar and travel course designed to prepare students before an international study abroad experience focused on horticulture. Upon completion of travel, students will analyze, critique, and report their experiences. Course will focus on appropriate oral and written documentation of the experience. Prerequisites: Instructor permission. Repeatable. K-State 8: Global Issues and Perspectives.

RATIONALE: The elective course will formalize and more accurately account for the various study abroad opportunities offered directly through the horticulture department. Students who have taken this course for credit have previously enrolled under either GENAG 505 (Comparative Agriculture) or HORT 390 (Horticulture Topics). In addition, two major goals for the study abroad trips are to provide students with a greater understanding of global issues and culture, in addition to historical concepts. Moreover, this course offering would be more insightful and would provide clarity on a student's transcript for their enrollment activity.

K-STATE 8
RATIONALE: This course provides international exposure to culture, language, history, perspectives, and horticultural applications in the global community.

IMPACT: No impact on other units.

EFFECTIVE DATE: Fall 2016.

Wildlife and Outdoor Enterprise Management

ADD: WOEM 596. Wildlife and Outdoor Enterprise Management Study Abroad. (3) Fall, Spring and Summer Seminar and travel course designed to prepare students before an international study abroad experience focused on several facets of wildlife and conservation, natural resources, diseases, and land management research. Upon completion of travel, students will analyze, critique, and report their experiences. Course will focus on appropriate oral and written documentation of the experience. Prerequisites: Instructor permission. Repeatable. K-State 8: Global Issues and Perspectives.

RATIONALE: The elective course will formalize and more accurately account for the various study abroad opportunities offered directly through the department. In addition, two major goals for the study abroad trips are to provide students with a greater understanding of global issues and culture, in addition to historical concepts. Moreover, this course offering would be more insightful and would provide clarity on a student's transcript for their enrollment activity.

K-STATE 8 RATIONALE: This course provides international exposure to culture, language, history, perspectives, and outdoor enterprise management applications in the global community.

IMPACT: No impact on other units.

EFFECTIVE DATE: Fall 2016.

Undergraduate Non-Expedited Curriculum Changes

Agricultural Economics

Agribusiness Degree: Food Industry Option
http://catalog.k-state.edu/preview_program.php?catoid=13&poid=5871

FROM:

TO:

<p>Agricultural Economics (36 credit hours) AGECE 105 - Agricultural Economics and Agribusiness Orientation (1) AGECE 115 - Decision Tools for Agricultural Economics and Agribusiness (2) AGECE 120 - Agricultural Economics and Agribusiness(3) or AGECE 121 - Honors Agricultural Economics and Agribusiness (3) AGECE 315 - Contemporary Issues in Global Food and Agricultural Systems (3) AGECE 318 - Food and Agribusiness Management (3) AGECE 500 - Production Economics (3) AGECE 501 - Data Analysis and Optimization (3) AGECE 505 - Agricultural Market Structures(3) AGECE 513 - Agricultural Finance (3) AGECE 515 - Food and Agribusiness Marketing (3) AGECE 570 - Food Manufacturing, Distribution and Retailing (3)</p>	<p>Agricultural Economics (36 credit hours) AGECE 105 - Agricultural Economics and Agribusiness Orientation(1) AGECE 115 - Decision Tools for Agricultural Economics and Agribusiness(2) AGECE 120 - Agricultural Economics and Agribusiness(3) or AGECE 121 - Honors Agricultural Economics and Agribusiness(3) AGECE 315 - Contemporary Issues in Global Food and Agricultural Systems(3) AGECE 318 - Food and Agribusiness Management(3) AGECE 500 - Production Economics(3) AGECE 501 - Data Analysis and Optimization(3) AGECE 505 - Agricultural Market Structures(3) AGECE 513 - Agricultural Finance(3) AGECE 515 - Food and Agribusiness Marketing (3) AGECE 570 - Food Manufacturing, Distribution and Retailing (3)</p>
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<p>AGEC 599 - Food and Agribusiness Management Strategies (3) AGEC 632 - Agribusiness Logistics (3)</p> <p>Agricultural Economics Electives (6 credit hours) AGEC 410 - Agricultural Policy (3) AGEC 420 - Commodity Futures (3) AGEC 460 - International Food and Agribusiness Study Tour(0-6) (Limit 3 credit hours) AGEC 516 - Agricultural Law and Economics (3) AGEC 520 - Market Fundamentals and Futures/Options Trading (3) AGEC 525 - Natural Resource and Environmental Economics (3) AGEC 598 - Farm Management Strategies (3) AGEC 605 - Price Analysis and Forecasting (3) AGEC 610 - Current Agriculture and Natural Resource Policy Issues(3) AGEC 615 - Global Agricultural Development (3) AGEC 623 - International Agricultural Trade (3) AGEC 680 - Risk Management (3) AGEC 710 - Comparative Food and Agriculture Systems (3) AGEC 712 - Optimization Techniques for Agricultural Economics (3) ECON 631 - Principles of Transportation (3) GENAG 515 - Honors/Scholars Project (2)</p> <p>Food Science and Technology Electives (6 credit hours) ASI 318 - Fundamentals of Nutrition (3) ASI 350 - Meat Science (3) ASI 361 - Meat Animal Processing (2) ASI 405 - Fundamentals of Milk Processing (3) FDSCI 302 - Introduction to Food Science (3) FDSCI 305 - Fundamentals of Food Processing (3) GRSC 101 - Introduction to Grain Science and Industry (3) GRSC 150 - Principles of Milling (2) GRSC 210 - CAD Flow Sheets for Grain Processes(3) GRSC 500 - Milling Science I (2) HN 132 - Basic Nutrition (3) HORT 201 - Principles of Horticultural Science (4) HORT 560 - Vegetable Crop Production (3)</p> <p>Communication (14 credit hours) COMM 105 - Public Speaking IA (2) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) 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)</p>	<p>AGEC 599 - Food and Agribusiness Management Strategies(3) AGEC 632 - Agribusiness Logistics(3)</p> <p>Agricultural Economics Electives (6 credit hours) AGEC 410 - Agricultural Policy(3) AGEC 420 - Commodity Futures(3) AGEC 460 - International Food and Agribusiness Study Tour(0-6) (Limit 3 credit hours) AGEC 516 - Agricultural Law and Economics (3) AGEC 520 - Market Fundamentals and Futures/Options Trading(3) AGEC 525 - Natural Resource and Environmental Economics(3) AGEC 598 - Farm Management Strategies(3) AGEC 605 - Price Analysis and Forecasting(3) AGEC 610 - Current Agriculture and Natural Resource Policy Issues(3) AGEC 615 - Global Agricultural Development(3) AGEC 623 - International Agricultural Trade(3) AGEC 680 - Risk Management(3) AGEC 710 - Comparative Food and Agriculture Systems(3) AGEC 712 - Optimization Techniques for Agricultural Economics(3) ECON 631 - Principles of Transportation(3) GENAG 515 - Honors/Scholars Project(2)</p> <p>Food Science and Technology Electives (6 credit hours) ASI 318 - Fundamentals of Nutrition(3) ASI 350 - Meat Science(3) ASI 361 - Meat Animal Processing(2) ASI 405 - Fundamentals of Milk Processing(3) FDSCI 302 - Introduction to Food Science(3) FDSCI 305 - Fundamentals of Food Processing(3) GRSC 101 - Introduction to Grain Science and Industry(3) GRSC 150 - Principles of Milling(2) GRSC 210 - CAD Flow Sheets for Grain Processes(3) GRSC 500 - Milling Science I(2) HN 132 - Basic Nutrition(3) HORT 201 - Principles of Horticultural Science(4) HORT 560 - Vegetable Crop Production(3)</p> <p>Communication (14 credit hours) COMM 105 - Public Speaking IA (2) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) 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)</p>
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<p>Economics/Business (27 credit hours) ACCTG, FINAN, MANGT, OR MKTG Elective (500-level or above) (3) ACCTG 231 - Accounting for Business Operations(3) ACCTG 241-Accounting for Investing and Financing (3) ECON 110 - Principles of Macroeconomics (3) ECON 510 - Intermediate Macroeconomics (3) MANGT 420 - Management Concepts (3) MKTG 400 - Introduction to Marketing (3) MKTG 450 - Consumer Behavior (3) MKTG 541 - Retailing(3)</p> <p>Mathematics/Statistics (6-9 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>Natural Sciences (8 credit hours) Select a combination of 2 courses for a total of 8 credit hours. BIOL 198 - Principles of Biology (4) CHM 110 - General Chemistry (3) and CHM 111 - General Chemistry Laboratory (1) PHYS 113 - General Physics I (4)</p> <p>Social Sciences/Humanities (9 credit hours) 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) PSYCH 110 - General Psychology (3) or SOCIO 211 - Introduction to Sociology (3) 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>Unrestricted electives as needed to meet 127 credit hours</p> <p>Total credit hours required for graduation: (127)</p> <p>Must satisfy K-State 8 general education requirements.</p>	<p>Economics/Business (27 credit hours) ACCTG, FINAN, MANGT, OR MKTG Elective (500-level or above) <u>(6)</u> ACCTG 231 - Accounting for Business Operations(3) ACCTG 241-Accounting for Investing and Financing (3) ECON 110 - Principles of Macroeconomics(3) ECON 510 - Intermediate Macroeconomics(3) MANGT 420 - Management Concepts(3) MKTG 400 - Introduction to Marketing(3) MKTG 450 - Consumer Behavior(3) <u>*MKTG 541 Retailing (3) recommended if available</u></p> <p>Mathematics/Statistics (6-9 credit hours) MATH 100 - College Algebra Credits:(3) MATH 205 - General Calculus and Linear Algebra(3) STAT 350 - Business and Economic Statistics I (3)</p> <p>Natural Sciences (8 credit hours) Select a combination of 2 courses for a total of 8 credit hours. BIOL 198 - Principles of Biology(4) CHM 110 - General Chemistry(3) and CHM 111 - General Chemistry Laboratory(1) PHYS 113 - General Physics I(4)</p> <p>Social Sciences/Humanities (9 credit hours) <u>PSYCH 110 - General Psychology(3)</u> or <u>SOCIO 211 - Introduction to Sociology(3)</u> 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)</p> <p>Unrestricted electives as needed to meet 127 credit hours</p> <p>Total credit hours required for graduation: (127)</p> <p>Must satisfy K-State 8 general education requirements.</p>
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RATIONALE:

MKTG 541 Retailing is not being taught on a consistent basis. This makes it difficult for junior or senior level students to enroll in the course

and meet the curriculum requirements. We propose changing the curriculum from requiring MKTG 541 and selecting 3 credits above the 500 level in either MANGT, MKTG, FINAN, or ACCTG to instead selecting 6 credits above the 500 level in either MANGT, MKTG, FINAN, or ACCTG with MKTG 541 recommended if the course is available. Changes to Social Sciences/Humanities reflect a desire to clarify that either PSYCH 110 or SOCIO 211 are required in addition to an elective in Social Science and an elective in Humanities. This reflects only a desire to clarify catalog copy and not an actual change in the approved curriculum.

IMPACT:

There is no expected new impact to the College of Business as students who are already not able to take MKTG 541 are being advised to select a different 500 level course in either MANGT, MKTG, FINAN, or ACCTG.

EFFECTIVE DATE:

Fall 2016

Agronomy

B.S. in Agriculture: Agronomy – Consulting and Production Option

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=5138

FROM:

TO:

<p>AGRONOMY (34-35): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 330 Weed Science (3) AGRON 360 Crop Growth & Development (3) AGRON 375 Soil Fertility (3) AGRON 385 Soil Fertility Lab (2) AGRON 405 Internship in Agronomy (3) AGRON 602 Agronomy Capstone Experience (3)</p> <p>AGRON 650 Integrated Weed Management (3) AGRON Elective (5-6)</p> <p>COMM/SOC. SCI./HUMAN./ECON/BUS (26) ACCTG 231 Acctg. for Business Operations (3) OR AGEC 308 Farm and Ranch Management (3) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Communications Elective (3) <i>Currently in DARS, not currently in Catalog</i> Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) ENGL 516 Written Comm. for the Sciences (3) COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3)</p> <p>Social Sci./Humanities Electives (9)</p> <p>GENERAL ELECTIVES (5-10)</p>	<p>AGRONOMY (34-35): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 330 Weed Science (3) AGRON 360 Crop Growth & Development (3) AGRON 375 Soil Fertility (3) AGRON 385 Soil Fertility Lab (2) AGRON 405 Internship in Agronomy (3)</p> <p><u>Select one course from:</u> <u>AGRON 602 Agronomy Capstone Experience (3)</u> <u>AGRON 502 Agronomy International Travel Experience (3)</u> <u>AGRON 655 Site Specific Agriculture (3)</u> <u>GENAG 582 NRES Project (3)</u></p> <p>AGRON 650 Integrated Weed Management (3) AGRON Elective (5-6)</p> <p>COMM/SOC. SCI./HUMAN./ECON/BUS (26) ACCTG 231 Acctg. for Business Operations (3) OR AGEC 308 Farm and Ranch Management (3) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Communications Elective (3)</p> <p>Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) <u>ENGL 417 Written Comm. for the Workplace (3)</u> ENGL 516 Written Comm. for the Sciences (3) <u>MKTG 542 Fund. of Professional Selling (3)</u> COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3) <u>Any second level or above foreign language</u></p> <p>Social Sci./Humanities Electives (9)</p> <p>GENERAL ELECTIVES (5-10)</p>
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<p>BIOLOGICAL/PHYSICAL SCI. (29-33) BIOCH 265 Intro. Organic/Biochemistry (5) OR CHM 350 General Organic Chemistry (3) BIOL 198 Principles of Biology (4) OR Botany Course (4) CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CIS 102 Intro. Spreadsheet Applic. (1) MATH 100 College Algebra (3) PHYS 113 General Physics (4) OR PHYS 115 Descriptive Physics (5) STAT 340 Biometrics (3)</p> <p>One of the following courses: AGRON 645 Soil Microbiology (3) ASI 500 Genetics (3) BIOL 455 General Microbiology (4)</p> <p>BIOL 529 Fundamentals of Ecology (3) GEOG 508 Geographic Information Syst I (4)</p> <p>AGRICULTURE (28-29) AGEC 120 Ag Econ & Agribusiness (3) or ECON 120 Prin Micro Economics (3) ATM 653 Water Management and Irrigation Systems (2) ATM 654 Water Management and Irrigation Systems Lab (1) ENTOM 300 Economic Entomology (3) OR ENTOM 312 General Entomology (3)</p> <p>ENTOM 612 Insect Pest Diagnosis (2) OR ENTOM 767 Insect Pest Management (3) PLPTH 500 Plant Pathology (3) PLPTH 585 Crop Diseases (2) Agricultural Electives (12)</p> <p>Total credit hours required for graduation: (127)</p>	<p>BIOLOGICAL/PHYSICAL SCI. (29-32) BIOCH 265 Intro. Organic/Biochemistry (5) OR CHM 350 General Organic Chemistry (3) BIOL 198 Principles of Biology (4)</p> <p>CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CIS 102 Intro. Spreadsheet Applic. (1) MATH 100 College Algebra (3) PHYS 113 General Physics (4)</p> <p>STAT 340 Biometrics (3)</p> <p>One of the following courses: AGRON 645 Soil Microbiology (3) ASI 500 Genetics (3) BIOL 455 General Microbiology (4) <u>BIOL 500 Plant Physiology (3)</u> BIOL 529 Fundamentals of Ecology (3) GEOG 508 Geographic Information Syst I (4) <u>PHYS 114 General Physics II (4)</u></p> <p>AGRICULTURE (28-29) AGEC 120 Ag Econ & Agribusiness (3) or ECON 120 Prin Micro Economics (3) ATM 653 Water Management and Irrigation Systems (2) ATM 654 Water Management and Irrigation Systems Lab (1) ENTOM 300 Economic Entomology (3) OR ENTOM 312 General Entomology (2) <u>AND</u> ENTOM 313 Gen. Entomology Lab (1) ENTOM 612 Insect Pest Diagnosis (2) OR ENTOM 767 Insect Pest Management (3) PLPTH 500 Plant Pathology (3) PLPTH 585 Crop Diseases (2) Agricultural Electives (12)</p> <p>Total credit hours required for graduation: (127)</p>
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RATIONALE:

The requirement of the Agronomy Capstone Experience is intended to integrate knowledge in the discipline. We are now adding an Agronomy Integration Requirement that allows students to meet the need for

integration by choosing one course from AGRON 502, 602, 655 or GENAG 582.

We are adding new course offerings to the communications elective list and deleting courses that are no longer taught. We are adding ENGL 417 and MKTG 542 because they are fairly new courses that will improve the communication skills of our students. It has long been our policy to allow a variance so that any second level or above foreign language course can be counted as a communications elective. We want to formally add these courses to the list so that students know these courses can be used as a communications elective. In addition, we are deleting COMM 326 from the list because other courses are available that emphasize the improvement of communications skills in the workplace. EDCI 706 and MKTG 422 are deleted because these courses are no longer taught.

BIOL 210 is deleted because this course has not been taught for several years. The content of PHYS 115 is no longer appropriate for agronomy students. BIOL 500 and PHYS 114 are useful courses for students to take for a biological and physical science restricted elective. These courses are also useful for preparing students to go to graduate school.

IMPACT:

All of the following departments have a possible impact: BIOL, COMM, EDCI, ENGL, GEOG, MKTG, PHYS, and the Department of Modern Languages. We have received emails of support from Karin Westman in English, Derek Hillard in Modern Languages, Esther Swilley in Marketing, Timothy Steffensmeier in Communication Studies, Todd Goodson in Curriculum and Instruction, Shawn Hutchinson in Geography. In addition, we are still awaiting responses from Amitabha Chakrabarti or Michael O'Shea in Physics, and Brian Spooner or David Rintoul in Biology.

EFFECTIVE DATE:

Fall 2016

FROM:

TO:

<p>AGRONOMY (32-33): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 330 Weed Science (3) AGRON 360 Crop Growth & Development (3) AGRON 375 Soil Fertility (3) AGRON 405 Internship in Agronomy (3) AGRON 602 Agronomy Capstone Experience (3)</p> <p>AGRON Electives (8-9)</p> <p>COMM/SOC. SCI./HUMAN./ECON/BUS (38) ACCTG 231 Acctg. for Business Operations (3) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Ag Econ & Ag Bus/Bus Admin Electives (12)</p> <p>Communications Elective (3) <i>Currently in DARS, not currently in Catalog</i> Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) ENGL 516 Written Comm. for the Sciences (3) COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3)</p> <p>Social Sci./Humanities Electives (9)</p> <p>GENERAL ELECTIVES (4-17)</p> <p>BIOLOGICAL/PHYSICAL SCI. (28-33) BIOCH 265 Intro. Organic/Biochemistry (5)</p>	<p>AGRONOMY (32-33): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 330 Weed Science (3) AGRON 360 Crop Growth & Development (3) AGRON 375 Soil Fertility (3) AGRON 405 Internship in Agronomy (3)</p> <p><u>Select one course from:</u> AGRON 502 Agronomy International Travel Experience (3) AGRON 602 Agronomy Capstone Experience (3) AGRON 655 Site Specific Agriculture (3) GENAG 582 NRES Project (3)</p> <p>AGRON Electives (8-9)</p> <p>COMM/SOC. SCI./HUMAN./ECON/BUS (38) ACCTG 231 Acctg. for Business Operations (3) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Ag Econ & Ag Bus/Bus Admin Electives (12)</p> <p>Communications Elective (3)</p> <p>Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) ENGL 417 Written Comm. for the Workplace (3) ENGL 516 Written Comm. for the Sciences (3) MKTG 542 Fund. of Professional Selling (3) COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3) <u>Any second level or above foreign language</u></p> <p>Social Sci./Humanities Electives (9)</p> <p>GENERAL ELECTIVES (<u>12</u>-17)</p> <p>BIOLOGICAL/PHYSICAL SCI. (28-<u>32</u>) BIOCH 265 Intro. Organic/Biochemistry (5)</p>
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<p>OR CHM 350 General Organic Chemistry (3) BIOL 198 Principles of Biology (4) OR Botany Course (4) CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CIS 102 Intro. Spreadsheet Applic. (1) MATH 100 College Algebra (3) STAT 350 Business & Econ. Statistics (3)</p> <p>Two of the following courses:</p> <p>ASI 500 Genetics (3) BIOL 455 General Microbiology (4) BIOL 500 Plant Physiology (3) BIOL 529 Fundamentals of Ecology (3) GEOG 508 Geographic Inform. Syst. I (4) MATH 205 Gen. Calc. & Linear Algebra (3) PHYS 113 General Physics (4) OR PHYS 115 Descriptive Physics (5)</p> <p>AGRICULTURE (12) AGEC 120 – Ag Econ & Agribusiness (3) or ECON 120- Prin Micro Economics (3) ENTOM 300 Economic Entomology (3) GENAG 101 Ag Orientation (1) PLPTH 500 Plant Pathology (3) Agricultural Elective (3)</p> <p>Total credit hours required for graduation: (127)</p>	<p>OR CHM 350 General Organic Chemistry (3) BIOL 198 Principles of Biology (4)</p> <p>CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CIS 102 Intro. Spreadsheet Applic. (1) MATH 100 College Algebra (3) STAT 350 Business & Econ. Statistics (3)</p> <p>Two of the following courses: <u>AGRON 645 Soil Microbiology (3)</u> ASI 500 Genetics (3) BIOL 455 General Microbiology (4) BIOL 500 Plant Physiology (3) BIOL 529 Fundamentals of Ecology (3) GEOG 508 Geographic Inform. Syst. I (4) MATH 205 Gen. Calc. & Linear Algebra (3) PHYS 113 General Physics (4)</p> <p>AGRICULTURE (12) AGEC 120 – Ag Econ & Agribusiness (3) or ECON 120- Prin Micro Economics (3) ENTOM 300 Economic Entomology (3)</p> <p>PLPTH 500 Plant Pathology (3) Agricultural Elective (3)</p> <p>Total credit hours required for graduation: (127)</p>
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RATIONALE:

The requirement of the Agronomy Capstone Experience is intended to integrate knowledge in the discipline. We are now adding an Agronomy Integration Requirement that allows students to meet the need for integration by choosing one course from AGRON 502, 602, 655 or GENAG 582.

We are adding new course offerings to the communications elective list and deleting courses that are no longer taught. We are adding ENGL 417 and MKTG 542 because they are fairly new courses that will improve the communication skills of our students. It has long been our policy to allow a variance so that any second level or above foreign language course can be counted as a communications elective. We want to formally add these courses to the list so that students know these courses can be used as a communications elective. In addition, we are deleting COMM 326 from the list because other courses are available that emphasize the improvement of communications skills in the workplace. EDCI 706 and MKTG 422 are deleted because these courses are no longer taught.

BIOL 210 is deleted because this course has not been taught for several years. The content of PHYS 115 is no longer appropriate for agronomy students.

AGRON 645 is a useful course for students to take for a biological and physical science restricted elective.

IMPACT: All of the following departments have a possible impact: BIOL, COMM, EDCI, ENGL, GEOG, MKTG, PHYS, and the Department of Modern Languages. We have received emails of support from Karin Westman in English, Derek Hillard in Modern Languages, Esther Swilley in Marketing, Timothy Steffensmeier in Communication Studies, Todd Goodson in Curriculum and Instruction, Shawn Hutchinson in Geography. In addition, we are still awaiting responses from Amitabha Chakrabarti or Michael O’Shea in Physics, and Brian Spooner or David Rintoul in Biology.

EFFECTIVE DATE: Fall 2016

B.S. in Agriculture: Agronomy – Plant Science and Biotechnology Option

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=5139

FROM:

TO:

<p>AGRONOMY (34-35): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 330 Weed Science (3) AGRON 360 Crop Growth & Development (3) AGRON 375 Soil Fertility (3) AGRON 405 Internship in Agronomy (3) AGRON 602 Agronomy Capstone Experience (3) AGRON 610 Biotechnology (3)</p> <p>AGRON Electives (7-8)</p> <p>COMM/SOCIAL SCI./HUMANITIES/ECON(26) AGECE 120 Agricultural Economics and Agribusiness (3) AGECE 315 Contemporary Issues in Global Food and Agricultural Systems (3) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p>	<p>AGRONOMY (36): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 330 Weed Science (3) AGRON 360 Crop Growth & Development (3) AGRON 375 Soil Fertility (3) AGRON 405 Internship in Agronomy (3) AGRON 610 Biotechnology (3) <u>AGRON 630 Crop Improvement & Biotech (3)</u></p> <p>Select one course from: <u>AGRON 502 Agronomy International Travel Experience (3)</u> <u>AGRON 602 Agronomy Capstone Experience (3)</u> <u>AGRON 655 Site Specific Agriculture (3)</u> <u>GENAG 582 NRES Project (3)</u></p> <p>AGRON Electives (6)</p> <p>COMM/SOCIAL SCI./HUMANITIES/ECON (26) AGECE 120 Agricultural Economics and Agribusiness (3) AGECE 315 Contemporary Issues in Global Food and Agricultural Systems (3) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p>
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<p>Communications Elective (3) <i>Currently in DARS, not currently in Catalog</i> Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) ENGL 516 Written Comm. for the Sciences (3) COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3)</p> <p>Social Sci./Humanities Electives (6)</p> <p>GENERAL ELECTIVES (8-10)</p> <p>BIOLOGICAL/PHYSICAL SCI. (54-55) BIOL 198 Principles of Biology (4) OR Botany Course (4) BIOL 450 Modern Genetics (3) OR ASI 500 Genetics (3) BIOL 500 Plant Physiology (3)</p> <p>CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CHM 350 General Organic Chemistry (3) CIS 102 Intro. Spreadsheet Applic. (1) ENTOM 300 Economic Entomology (3) MATH 100 College Algebra (3) MATH 150 Plane Trigonometry (3)</p> <p>PHYS 113 General Physics (4) OR PHYS 115 Descriptive Physics (5) STAT 340 Biometrics (3)</p> <p>Plus 12 credit hours from the following courses: AGRON 680 Plant Genetics (3) BIOCH 521 General Biochemistry (3) BIOL 529 Fundamentals of Ecology (3) BIOL 675 Genetics of Microorganisms (3) BIOL 676 Molecular Genetics Lab (3) ENTOM 732 Intro. Plant Resist. To Pests (2) cross-listed as AGRON 732, PLPTH 732</p> <p>MATH 220 Analytical Geom&CalculusI (4)</p>	<p>Communications Elective (3)</p> <p>Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) <u>ENGL 417 Written Comm. for the Workplace (3)</u> ENGL 516 Written Comm. for the Sciences (3) <u>MKTG 542 Fund. of Professional Selling (3)</u> COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3) <u>Any second level or above foreign language</u></p> <p>Social Sci./Humanities Electives (6)</p> <p>GENERAL ELECTIVES (11)</p> <p>BIOLOGICAL/PHYSICAL SCI. (54) BIOL 198 Principles of Biology (4)</p> <p>BIOL 450 Modern Genetics (3) OR ASI 500 Genetics (3) BIOL 500 Plant Physiology (3) <u>BIOL 501 Plant Physiology Lab (1)</u> CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CHM 350 General Organic Chemistry (3) CIS 102 Intro. Spreadsheet Applic. (1) ENTOM 300 Economic Entomology (3) MATH 100 College Algebra (3) MATH 150 Plane Trigonometry (3) <u>PLPTH 500 Plant Pathology (3)</u> PHYS 113 General Physics (4)</p> <p>STAT 340 Biometrics (3)</p> <p>Plus 12 credit hours from the following courses: AGRON 680 Plant Genetics (3) BIOCH 521 General Biochemistry (3) BIOL 529 Fundamentals of Ecology (3) BIOL 675 Genetics of Microorganisms (3) BIOL 676 Molecular Genetics Lab (3) ENTOM 732 Intro. Plant Resist. To Pests (2) cross-listed as AGRON 732, PLPTH 732 <u>ENTOM 745 Plant Resistance to Insects (2)</u> MATH 220 Analytical Geom&CalculusI (4)</p>
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MATH 221 Analytical Geom&CalculusII(4) PHYS 114 General Physics II (4) PLPTH 585 Crop Diseases (2) PLPTH 755 Plant Resistance to Diseases (2) Total credit hours required for graduation: (127)	MATH 221 Analytical Geom&CalculusII(4) PHYS 114 General Physics II (4) PLPTH 585 Crop Diseases (2) PLPTH 755 Plant Resistance to Diseases (2) Total credit hours required for graduation: (127)
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RATIONALE:

The requirement of the Agronomy Capstone Experience is intended to integrate knowledge in the discipline. We are now adding an Agronomy Integration Requirement that allows students to meet the need for integration by choosing one course from AGRON 502, 602, 655 or GENAG 582.

We are adding new course offerings to the communications elective list and deleting courses that are no longer taught. We are adding ENGL 417 and MKTG 542 because they are fairly new courses that will improve the communication skills of our students. It has long been our policy to allow a variance so that any second level or above foreign language course can be counted as a communications elective. We want to formally add these courses to the list so that students know these courses can be used as a communications elective. In addition, we are deleting COMM 326 from the list because other courses are available that emphasize the improvement of communications skills in the workplace. EDCI 706 and MKTG 422 are deleted because these courses are no longer taught.

BIOL 210 is deleted because this course has not been taught for several years.

The content of PHYS 115 is no longer appropriate for agronomy students.

BIOL 500 was a 4 credit hour class with a lab. The lab and class are now split, and BIOL 500 is a 3 credit hour course and BIOL 501 is 1 credit hour lab.

IMPACT:

All of the following departments have a possible impact: BIOL, COMM, EDCI, ENGL, GEOG, MKTG, PHYS, and the Department of Modern Languages. We have received emails of support from Karin Westman in English, Derek Hillard in Modern Languages, Esther Swilley in Marketing, Timothy Steffensmeier in Communication Studies, Todd Goodson in Curriculum and Instruction, Shawn Hutchinson in Geography. In addition, we are still awaiting responses from Amitabha Chakrabarti or Michael O’Shea in Physics, and Brian Spooner or David Rintoul in Biology.

EFFECTIVE DATE:

Fall 2016

FROM:

TO:

<p>AGRONOMY (35-36): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 501 Range Management (3) AGRON 515 Soil Genesis and Classification (3) AGRON 560 ID Range & Pasture Plants (1) AGRON 602 Agronomy Capstone Experience (3) AGRON 660 Grassland Monitoring & Ass. (2) AGRON 661 Grassland Monitoring & Ass. Lab (1) AGRON 670 Range Management Problems (3) AGRON 681 Range Ecology (3) AGRON 762 Range Grasses (2) AGRON 790 Range Management Planning (3)</p> <p>AGRON Elective (2 or 3)</p> <p>COMM/SOCIAL SCI./HUMANITIES/ECON(23) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Communications Elective (3) <i>Currently in DARS, not currently in Catalog</i> Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) ENGL 516 Written Comm. for the Sciences (3) COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3)</p> <p>Social Sci./Humanities Electives (9)</p>	<p>AGRONOMY (35-36): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 501 Range Management (3) AGRON 515 Soil Genesis and Classification (3) AGRON 560 ID Range & Pasture Plants (1)</p> <p>AGRON 660 Grassland Monitoring & Ass. (2) AGRON 661 Grassland Monitoring & Ass. Lab (1) AGRON 670 Range Management Problems (3) AGRON 681 Range Ecology (3) AGRON 762 Range Grasses (2) AGRON 790 Range Management Planning (3)</p> <p><u>Select one course from:</u> <u>AGRON 502 Agronomy International Travel Experience (3)</u> <u>AGRON 602 Agronomy Capstone Experience (3)</u> <u>AGRON 655 Site Specific Agriculture (3)</u> <u>GENAG 582 NRES Project (3)</u></p> <p>AGRON Elective (2 or 3)</p> <p>COMM/SOCIAL SCI./HUMANITIES/ECON (23) COMM 105 Public Speaking I (2) ECON 110 Prin. Macroeconomics (3) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Communications Elective (3)</p> <p>Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) <u>ENGL 417 Written Comm. for the Workplace (3)</u> ENGL 516 Written Comm. for the Sciences (3) <u>MKTG 542 Fund. of Professional Selling (3)</u> COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3) <u>Any second level or above foreign language</u></p>
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<p>GENERAL ELECTIVES (40-14)</p> <p>BIOLOGICAL/PHYSICAL SCI. (43-46) BIOCH 265 Intro. Organic/Biochemistry (5) OR CHM 350 General Organic Chemistry (3) BIOL 198 Principles of Biology (4) OR Botany Course (4) BIOL 500 Plant Physiology (4) BIOL 529 Fundamentals of Ecology (3)</p> <p>BIOL 551 Taxonomy of Flowering Plants (4) CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CIS 102 Intro. Spreadsheet Applic. (1) GEOL 100 Earth in Action (3) MATH 100 College Algebra (3) MATH 150 Plane Trigonometry (3) PHYS 113 General Physics (4) OR PHYS 115 Descriptive Physics (5) Biol. & Phys. Sci. Elective (3)</p> <p>AGRICULTURE (12) AGEC 120 – Ag Econ & Agribusiness (3) or ECON 120- Prin Micro Economics (3) ASI 102 Principles of Animal Science (3) ASI 515 Beef Science (3) ENTOM 300 Economic Entomology (3)</p> <p>Total credit hours required for graduation: (127)</p>	<p>Social Sci./Humanities Electives (9)</p> <p>GENERAL ELECTIVES (<u>12-15</u>)</p> <p>BIOLOGICAL/PHYSICAL SCI. (<u>42-44</u>) BIOCH 265 Intro. Organic/Biochemistry (5) OR CHM 350 General Organic Chemistry (3) BIOL 198 Principles of Biology (4)</p> <p>BIOL 500 Plant Physiology (<u>3</u>) BIOL 529 Fundamentals of Ecology (3) OR <u>BIOL 504 Plant Ecology (3)</u> BIOL 551 Taxonomy of Flowering Plants (4) CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CIS 102 Intro. Spreadsheet Applic. (1) GEOL 100 Earth in Action (3) MATH 100 College Algebra (3) MATH 150 Plane Trigonometry (3) PHYS 113 General Physics (4)</p> <p>Biol. & Phys. Sci. Elective (3)</p> <p>AGRICULTURE (12) AGEC 120 – Ag Econ & Agribusiness (3) or ECON 120- Prin Micro Economics (3) ASI 102 Principles of Animal Science (3) ASI 515 Beef Science (3) ENTOM 300 Economic Entomology (3)</p> <p>Total credit hours required for graduation: (127)</p>
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RATIONALE:

The requirement of the Agronomy Capstone Experience is intended to integrate knowledge in the discipline. We are now adding an Agronomy Integration Requirement that allows students to meet the need for integration by choosing one course from AGRON 502, 602, 655 or GENAG 582.

We are adding new course offerings to the communications elective list and deleting courses that are no longer taught. We are adding ENGL 417 and MKTG 542 because they are fairly new courses that will improve the communication skills of our students. It has long been our policy to allow a variance so that any second level or above foreign language course can be counted as a communications elective. We want to formally add these courses to the list so that students know these courses can be used as a communications elective. In addition, we are deleting COMM 326 from the list because other courses are available that

emphasize the improvement of communications skills in the workplace. EDCI 706 and MKTG 422 are deleted because these courses are no longer taught.

BIOL 210 is deleted because this course has not been taught for several years. The content of PHYS 115 is no longer appropriate for agronomy students. BIOL 500 was a 4 credit hour class with a lab. The lab and class are now split and BIOL 500 is only a 3 credit hour course. BIOL 504 is also a useful ecology course that students can take. BIOL 504 is also a useful ecology course that students can take.

IMPACT:

All of the following departments have a possible impact: BIOL, COMM, EDCI, ENGL, GEOG, MKTG, PHYS, and the Department of Modern Languages. We have received emails of support from Karin Westman in English, Derek Hillard in Modern Languages, Esther Swilley in Marketing, Timothy Steffensmeier in Communication Studies, Todd Goodson in Curriculum and Instruction, Shawn Hutchinson in Geography. In addition, we are still awaiting responses from Amitabha Chakrabarti or Michael O’Shea in Physics, and Brian Spooner or David Rintoul in Biology.

EFFECTIVE DATE:

Fall 2016

B.S. in Agriculture: Agronomy – Soil and Environmental Science Option

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=5141

FROM:

TO:

<p>AGRONOMY (39): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 335 Environmental Quality (3) AGRON 405 Internship in Agronomy (3)</p> <p>Plus 12 credit hours from the following courses: AGRON 360 Crop Growth&Development (3) AGRON 375 Soil Fertility (3) AGRON 385 Soil Fertility Lab (2) AGRON 501 Range Management (3) AGRON 515 Soil Genesis & Classification (3) AGRON 602 Agronomy Capstone Experience (3) AGRON 605 Soil & Environ. Chemistry (3) AGRON 625 Applic. of Nutrient Mgmt. (3) AGRON 635 Soil Conserv. & Management (3) AGRON 645 Soil Microbiology (3) AGRON 646 Soil Microbiology Lab (1) AGRON 746 Physical Properties of Soils (3) AGRON Electives (6) Environmental Science or Agronomy Elective (3)</p> <p>COMM/SOCIAL SCI./HUMANITIES/ECON(26)</p>	<p>AGRONOMY (42): AGRON 101 Agronomy Orientation (1) AGRON 220 Crop Science (4) AGRON 305 Soils (4) AGRON 335 Environmental Quality (3) <u>AGRON 375 Soil Fertility (3)</u> AGRON 405 Internship in Agronomy (3) <u>AGRON 515 Soil Genesis&Classification (3)</u> <u>AGRON 605 Soil & Environ. Chemistry (3)</u> <u>AGRON 645 Soil Microbiology (3)</u> <u>AGRON 746 Physical Properties of Soils (3)</u></p> <p><u>Select one course from:</u> <u>AGRON 502 Agronomy International Travel Experience (3)</u> <u>AGRON 602 Agronomy Capstone Experience (3)</u> <u>AGRON 655 Site Specific Agriculture (3)</u> <u>GENAG 582 NRES Project (3)</u></p> <p><u>AGRON Electives (9)</u></p> <p>COMM/SOCIAL SCI./HUMANITIES/ECON (26)</p>
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<p>AGEC 120 – Ag Econ & Agribusiness (3) or ECON 120- Prin Micro Economics (3) AGEC 525 Natural Resources/Environ. Econ. (3) COMM 105 Public Speaking I (2) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Communications Elective (3) <i>Currently in DARS, not currently in Catalog</i> Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) ENGL 516 Written Comm. for the Sciences (3) COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3)</p> <p>Social Sci./Humanities Electives (6) One of the following courses: ANTH 260 Intro. To Archaeology (3) GEOG 340 Geography of Natural Res. (3) HIST 511 Environmental History (3) SOCIO 536 Environmental Sociology (3)</p> <p>GENERAL ELECTIVES (11-17)</p> <p>BIOLOGICAL/PHYSICAL SCI. (48-52) BIOL 198 Principles of Biology (4) OR BIOL 210 General Botany (4) CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CHM 350 General Organic Chemistry (3) CIS 102 Intro. Spreadsheet Applic. (1) GEOL 100 Earth in Action (3) GEOL 103 Geology Lab (1) MATH 100 College Algebra (3) MATH 150 Plane Trigonometry (3) PHYS 113 General Physics (4) OR PHYS 115 Descriptive Physics (5) STAT 340 Biometrics (3)</p> <p>Five of the following courses:</p>	<p>AGEC 120 – Ag Econ & Agribusiness (3) or ECON 120- Prin Micro Economics (3) AGEC 525 Natural Resources/Environ. Econ. (3) COMM 105 Public Speaking I (2) ENGL 100 Expository Writing I (3) ENGL 200 Expository Writing II (3)</p> <p>Communications Elective (3)</p> <p>Select from: AGCOM 400 Ag. Business Communications (3) AGCOM 410 Ag. Student Magazine (3) ENGL 300 Expository Writing (3) <u>ENGL 417 Written Comm. for the Workplace (3)</u> ENGL 516 Written Comm. for the Sciences (3) <u>MKTG 542 Fund. of Professional Selling (3)</u> COMM 311 Business and Prof. Speaking (3) COMM 321 Public Speaking II COMM 325 Argumentation and Debate COMM 326 Small Group Discussion Methods (3) COMM 526 Persuasion (3) <u>Any second level or above foreign language</u></p> <p>Social Sci./Humanities Electives (6) One of the following courses: ANTH 260 Intro. To Archaeology (3) GEOG 340 Geography of Natural Res. (3) HIST 511 Environmental History (3) SOCIO 536 Environmental Sociology (3)</p> <p>GENERAL ELECTIVES (<u>14</u>)</p> <p>BIOLOGICAL/PHYSICAL SCI. (<u>45</u>) BIOL 198 Principles of Biology (4)</p> <p>CHM 210 Chemistry I (4) CHM 230 Chemistry II (4) CHM 350 General Organic Chemistry (3) CIS 102 Intro. Spreadsheet Applic. (1) GEOL 100 Earth in Action (3) GEOL 103 Geology Lab (1) MATH 100 College Algebra (3) MATH 150 Plane Trigonometry (3) PHYS 113 General Physics (4)</p> <p>STAT 340 Biometrics (3)</p> <p><u>12 hours from the following courses:</u> <u>AGRON 695 Climate Change and Agr. (3)</u></p>
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<p>AGRON 606 Remote Sensing of the Environ. (3) cross listed with GEOG 605</p> <p>AGRON 655 Site Specific Agriculture (3) ATM 661 Water & Waste in Environ. (3)</p> <p>BIOCH 521 General Biochemistry (3) BIOL 500 Plant Physiology (4) BIOL 529 Fundamentals of Ecology (3) CHM 371 Chemical Analysis (4) PMC 375 Intro. Natural Resource Mgmt. (3) GEOG 508 Geographic Information Syst.(4) GEOG 535 Fund. of Climatology (3)</p> <p>GEOG 725 Geography Water Resources (3) GEOL 506 Environmental Studies (3) GEOL 520 Geomorphology (3) MATH 220 Analy. Geometry & Calc. I (4)</p> <p>PHYS 114 General Physics II (4)</p> <p>Total credit hours required for graduation: (127)</p>	<p><u>AGRON 700 Agricultural Meteorology (3)</u> ATM 661 Water & Waste in Environ. (3) <u>BAE 560 Hydrology for Biol. Systems (3)</u> BIOCH 521 General Biochemistry (3) BIOL 500 Plant Physiology (4) BIOL 529 Fundamentals of Ecology (3) CHM 371 Chemical Analysis (4) PMC 375 Intro. Natural Resource Mgmt. (3) GEOG 508 Geographic Information Syst.(4) GEOG 535 Fund. of Climatology (3) <u>GEOG 605 Remote Sensing of Environ. (3)</u> GEOG 725 Geography Water Resources (3) GEOL 506 Environmental Studies (3) GEOL 520 Geomorphology (3) MATH 220 Analy. Geometry & Calc. I (4) <u>MATH 221 Analy. Geometry & Calc. II (4)</u> PHYS 114 General Physics II (4)</p> <p>Total credit hours required for graduation: (127)</p>
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RATIONALE:

The requirement of the Agronomy Capstone Experience is intended to integrate knowledge in the discipline. We are now adding an Agronomy Integration Requirement that allows students to meet the need for integration by choosing one course from AGRON 502, 602, 655 or GENAG 582.

We are adding new course offerings to the communications elective list and deleting courses that are no longer taught. We are adding ENGL 417 and MKTG 542 because they are fairly new courses that will improve the communication skills of our students. It has long been our policy to allow a variance so that any second level or above foreign language course can be counted as a communications elective. We want to formally add these courses to the list so that students know these courses can be used as a communications elective. In addition, we are deleting COMM 326 from the list because other courses are available that emphasize the improvement of communications skills in the workplace. EDCI 706 and MKTG 422 are deleted because these courses are no longer taught.

BIOL 210 is deleted because this course has not been taught for several years. The content of PHYS 115 is no longer appropriate for agronomy students. BIOL 500 was a 4 credit hour class with a lab. The lab and class are now split and BIOL 500 is only a 3 credit hour course. Adding AGRON 375, AGRON 515, AGRON 605, and AGRON 645 to required agronomy courses ensures that students will have courses that cover the five competency areas of the Professional Soil Science Exam administered by the Soil Science Society of America. AGRON 695, AGRON 700, BAE 560, and MATH 221 are useful courses for students to take for a biological and physical science restricted elective.

IMPACT:

All of the following departments have a possible impact: BAE, BIOL, COMM, EDCI, ENGL, GEOG, MKTG, PHYS, and the Department of Modern Languages. We have received emails of support from John Slocombe in Biological and Agricultural Engineering, Karin Westman in

English, Derek Hillard in Modern Languages, Esther Swilley in Marketing, Timothy Steffensmeier in Communication Studies, Todd Goodson in Curriculum and Instruction, Andrew Bennett in Mathematics and Shawn Hutchinson in Geography. In addition, we are still awaiting responses from Amitabha Chakrabarti or Michael O'Shea in Physics, and Brian Spooner or David Rintoul in Biology.

EFFECTIVE DATE:

Fall 2016

ADD:

B.S. in Agriculture: Agronomy – Precision Agriculture Option

Agronomy includes crop, soil, weed, range, and environmental sciences. Students in agronomy have diverse interests, including crop production and physiology; crop breeding; soil management, fertility, and conservation; soil and water quality; physical and chemical properties of soils; forages; and range management

AGRONOMY (37-38):

AGRON 101 Agronomy Orientation (1)
AGRON 202 Intro. to Precision Ag. Software (3)
AGRON 220 Crop Science (4)
AGRON 305 Soils (4)
AGRON 330 Weed Science (3)
AGRON 360 Crop Growth & Development (3)
AGRON 375 Soil Fertility (3)
AGRON 385 Soil Fertility Lab (2)
AGRON 405 Internship in Agronomy (3)
AGRON 515 Soil Genesis and Classification (3)
AGRON 655 Site Specific Agriculture (3)

Two courses from:

AGRON 335 Environmental Quality (3)
AGRON 625 Applications of Nutrient Mgmt. (3)
AGRON 640 Cropping Systems (3)
AGRON 650 Integrated Weed Management (3)
AGRON 746 Physical Properties of Soils (3)
AGRON 645 Soil Microbiology (3)

COMM/SOCIAL SCI./HUMANITIES/ECON (24):

COMM 105 Public Speaking I (2)
ECON 110 Principles of Macroeconomics (3)
ENGL 100 Expository Writing I (3)
GEOG 302 Cartography & Thematic Mapping (3)
GEOG 508 Geographic Information Sys. I (4)
ENGL 200 Expository Writing II (3)
Social Science/Humanities Elective (3)
Communications Elective (3)

Select from:

AGCOM 400 Ag. Business Communications (3)
AGCOM 410 Ag. Student Magazine (3)
COMM 311 Business and Prof. Speaking (3)
COMM 321 Public Speaking II
COMM 325 Argumentation and Debate
COMM 526 Persuasion (3)
ENGL 300 Expository Writing (3)
ENGL 417 Written Comm. for the Workplace (3)
ENGL 516 Written Comm. for the Sciences (3)
MKTG 542 Fund. of Professional Selling (3)
Any second level or above foreign language

GENERAL ELECTIVES (8-12)

BIOLOGICAL/PHYSICAL SCI. (36-39):

BIOCHM 265 Intro. Organic & Biochemistry (5)

OR

CHM 350 General Organic Chemistry (3)

BIOL 198 Principles of Biology (4)

CHM 210 Chemistry I (4)

CHM 230 Chemistry II (4)

MATH 100 College Algebra (3)

MATH 150 Plane Trigonometry (3)

PHYS 113 General Physics I (4)

STAT 340 Biometrics (3)

Two courses from:

GEOG 605 Remote Sensing of the Environment (3)

GEOG 608 Geographic Information Sys. II (3)

AVT 270 Intro. to Unmanned Aircraft Syst. (3)

AVT 373 UAS Design for Non-Aviators (3)

AVT 463 UAS Mission Planning and Operations for Non-Aviators (3)

One course from:

ASI 500 Genetics (3)

BIOL 529 Fundamentals of Ecology (3)

BIOL 500 Plant Physiology (3)

ATM 450 Sensors & Controls for Ag. & Biol. Sys. (3)

ATM 653&654 Irrigation Practices & Lab (3)

PLPTH 585 Crop Diseases (2)

ATM 250&251 Chemical Applic. Syst. & Lab (3)

AGRICULTURE (18):

AGEC 120 Ag. Economics and Agribusiness (3)

OR

AGEC 121 Honors Ag Ag Economics and Agribusiness (3)

OR

ECON 120 Prin. Microeconomics (3)

ATM 550 Precision Ag. Technologies (3)

ENTOM 300 Economic Entomology (3)

PLPTH 500 Plant Pathology (3)

Agriculture Electives (6)

Total credit hours required for graduation: (127)

RATIONALE:

This new option is needed to meet industry requirements for a B.S. in Agriculture with an Agronomy major where the student receives additional specialization in precision agriculture. Industry groups have requested that we add this option to meet the needs of the profession.

IMPACT:

We do not anticipate that this option will increase the total number of students majoring in Agronomy. It will mostly draw from students

already enrolled in the Consulting and Production Option. All of the following departments have a possible impact: ATM, AVT, BAE, BIOL, COMM, EDCI, ENGL, GEOG, MKTG, PHYS, and the Department of Modern Languages. We have received emails of support from John Slocombe in Agricultural Technology Management and Biological and Agricultural Engineering, Michael Most, Kurt Carraway and Kurt Barnhart in Unmanned Aircraft Systems, Derek Hillard in Modern Languages, Esther Swilley in Marketing, Timothy Steffensmeier in Communication Studies, Todd Goodson in Curriculum and Instruction, Shawn Hutchinson in Geography. In addition, we are still awaiting responses from Karin Westman in English, Amitabha Chakrabarti or Michael O'Shea in Physics, and Brian Spooner or David Rintoul in Biology. BAE, ATM, and AVT. The AVT courses are currently offered only at K-State Salina. However, we anticipate that these courses will be taught on the main campus starting Fall 2016.

EFFECTIVE DATE:

Fall 2016

Horticulture, Forestry, and Recreational Resources

B.S. in Agriculture: Horticulture Science Option

http://catalog.k-state.edu/preview_program.php?catoid=13&poid=3337

FROM:	TO:
<p>Communications (17-19 credit hours)</p> <p>COMM 105 - Public Speaking IA (2) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) Foreign Language Elective (3-5) Speech/Communications Elective (3) Writing Elective (3)</p> <p>Humanities/Social Sciences Electives (6 credit hours)</p> <p>GEOG 100 – World Regional Geography (3) or PSYCH 110 – General Psychology (3) or SOCIO 211 – Intro to Sociology (3) Humanities elective (3)</p> <p>Quantitative Sciences (25 credit hours)</p> <p>CHM 210 – Chemistry I (4) CHM 230 – Chemistry II (4) CHM 350 – Gen. Organic Chemistry (3) CIS 101 – Intro. Information Tech. (1) CIS 102 – Intro. Spreadsheet Apps. (1) CIS 104 – Intro. Wordprocessing Apps. (1) MATH 205 – Gen. Calc. & Lin. Algebra (3) PHYS 115 – Descriptive Physics (5) Statistics Elective (3)</p> <p>Agric./Biological Sciences (33-35 credit hours)</p> <p>AGRON 305 - Soils (4) BIOCH 521 – Gen. Biochemistry (3) BIOCH 522 – Gen. Biochemistry Lab (2) ASI 500 – Genetics (3) OR BIOL 450 – Modern Genetics (3) BIOL 198 - Principles of Biology (4) BIOL 500 – Plant Physiology (4) HORT 201 – Princ. of Horticulture Science (4) PLPTH 500 – Princ. Plant Pathology (3) Biology Elective (3-4) Entomology Elective (3)</p> <p>Ag. Econ./Business Electives (6 credit hours)</p> <p>ACCTG 231 – Accounting for Bus. Oper. (3)</p>	<p>Communications (17-19 credit hours)</p> <p>COMM 105 - Public Speaking IA (2) ENGL 100 - Expository Writing I (3) ENGL 200 - Expository Writing II (3) Foreign Language Elective (3-5) Speech/Communications Elective (3) Writing Elective (3)</p> <p>Humanities/Social Sciences Electives (6 credit hours)</p> <p>GEOG 100 – World Regional Geography (3) or PSYCH 110 – General Psychology (3) or SOCIO 211 – Intro to Sociology (3) Humanities elective (3)</p> <p>Quantitative Sciences (22 credit hours)</p> <p>CHM 210 – Chemistry I (4) CHM 230 – Chemistry II (4) CHM 350 – Gen. Organic Chemistry (3) MATH 205 – Gen. Calc. & Lin. Algebra (3) PHYS 115 – Descriptive Physics (5) Statistics Elective (3)</p> <p>Agric./Biological Sciences (33-34 credit hours)</p> <p>AGRON 305 - Soils (4) BIOCH 521 – Gen. Biochemistry (3) BIOCH 522 – Gen. Biochemistry Lab (2) ASI 500 – Genetics (3) OR BIOL 450 – Modern Genetics (3) BIOL 198 - Principles of Biology (4) BIOL 500 – Plant Physiology (3) BIOL 501 – Plant Physiology Lab (1) HORT 201 – Princ. of Horticulture Science (4) PLPTH 500 – Princ. Plant Pathology (3) <u>PLPTH 590 – Landscape Diseases (2)</u> Biology Elective (3-4) Entomology Elective (3)</p> <p>Ag. Econ./Business Electives (6 credit hours)</p> <p>ACCTG 231 – Accounting for Bus. Oper. (3)</p>

ECON 110 – Princ. of Macroeconomics (3) OR ECON 120 – Princ. of Microeconomics (3)	ECON 110 – Princ. of Macroeconomics (3) OR ECON 120 – Princ. of Microeconomics (3)
Horticulture Requirement (20–21 credit hours)	Horticulture Requirement (<u>19–20</u> credit hours)
HORT 190- Pre-Internship in Horticulture (1) HORT 350 – Plant Propagation (3) HORT 520 – Fruit Production (3) OR HORT 560 – Vegetable Crop Production (3) HORT 570 – Greenhouse Ops. Mgt. (3) HORT 582 – Foundations of Hort. Pest Mgt. (1) HORT 590 – Hort. Internship (2-3) HORT 599 – The Horticultural Professional (0) HORT 710 – Plant Cell. Tissue & Organ Cult. (3) Pest Management Elective (1) Environmental Science Elective (3)	HORT 190- Pre-Internship in Horticulture (1) HORT 350 – Plant Propagation (3) HORT 520 – Fruit Production (3) OR HORT 560 – Vegetable Crop Production (3) HORT 570 – Greenhouse Ops. Mgt. (3) HORT 582 – Foundations of Hort. Pest Mgt. (1) HORT 590 – Hort. Internship (2-3) HORT 599 – The Horticultural Professional (0) HORT 710 – Plant Cell. Tissue & Organ Cult. (3) Environmental Science Elective (3)
Plant Science Electives (15 credit hours)	Plant Science Electives (15 credit hours)
Free Electives (3–8 credit hours)	Free Electives (<u>4–8</u> credit hours)
Total Credits for Graduation (130 credit hours)	Total Credits for Graduation (<u>126</u> credit hours)

RATIONALE:

The curriculum is responding to reduction of total credit hours for graduation consistent curricula of the other specializations in the major.

IMPACT:

No impact on other units.

EFFECTIVE DATE:

Fall 2016

FROM:

TO:

GENERAL REQUIREMENTS (45 hours)	GENERAL REQUIREMENTS (45 hours)
<p>Communications: (12 hours) COMM 106 (3) Public Speaking I COMM 311 (3) Business & Prof. Speaking ENGL 100 (3) Expository Writing I ENGL 200 (3) Expository Writing II</p>	<p>Communications: (12 hours) COMM 106 (3) Public Speaking I COMM 311 (3) Business & Prof. Speaking ENGL 100 (3) Expository Writing I ENGL 200 (3) Expository Writing II</p>
<p>Natural Sciences: (15 hours) AGRON 305 (4) Soils BIOL 198 (4) Prin. of Biology CHM 110 (3) General Chemistry CHM 111 (1) General Chemistry Lab GEOL 100 (3) Earth in Action</p>	<p>Natural Sciences: (15 hours) AGRON 305 (4) Soils BIOL 198 (4) Prin. of Biology CHM 110 (3) General Chemistry CHM 111 (1) General Chemistry Lab GEOL 100 (3) Earth in Action</p>
<p>Social Sciences: (12 hours) ANTH 200 (3) Intro. to Cultural Anthropology</p>	<p>Social Sciences: (12 hours) ANTH 200 (3) Intro. to Cultural Anthropology</p>
<p><u>OR</u></p>	<p><u>OR</u> <u>ANTH 204 (3) A Gen. Ed. Intro. to Cultural Anthropology</u></p>
<p>ECON 110 (3) Principles of Macroeconomics <u>OR</u></p>	<p>ECON 110 (3) Principles of Macroeconomics <u>OR</u></p>
<p>ECON 120 (3) Principles of Microeconomics PSYCH 110 (3) General Psychology SOCIO 211 (3) Intro. to Sociology</p>	<p>ECON 120 (3) Principles of Microeconomics PSYCH 110 (3) General Psychology SOCIO 211 (3) Intro. to Sociology</p>
<p>Mathematics & Statistics: (6 hours) MATH 100 (3) College Algebra STAT 325 (3) Introduction to Statistics</p>	<p>Mathematics & Statistics: (6 hours) MATH 100 (3) College Algebra STAT 325 (3) Introduction to Statistics</p>
PROFESSIONAL CORE (38 hours)	PROFESSIONAL CORE (42 hours)
<p>PMC 110 (1) Environ. Ed. and Leadership PMC 210 (3) Intro. to Outdoor Recreation PMC 275 (3) Intro to Natural Resource Mgmt. PMC 330 (3) Dendrology PMC 350 (1-2) Parks & Recreation Practicum PMC 475 (3) Natural Hist. for Park Managers *PMC 489 (3) Program & Event Planning PMC 492 (6) Internship in Parks & Rec. PMC 510 (3) Forestry for Park Professionals PMC 580 (4) Park Ops & Facilities Mgmt.</p>	<p>PMC 110 (1) Environ. Ed. and Leadership PMC 210 (3) Intro. to Outdoor Recreation PMC 275 (3) Intro to Natural Resource Mgmt. PMC 330 (3) Dendrology PMC 350 (1) Parks & Recreation Practicum PMC 475 (3) Natural Hist. for Park Managers PMC 489 (3) Program & Event Planning PMC 492 (6) Internship in Parks & Rec. PMC 580 (4) Park Ops & Facilities Mgmt. PMC 620 (3) Park Planning and Design</p>

PMC 620 (3) Park Planning and Design	PMC 635 (3) Methods of Enviro. Interpretation
PMC 635 (3) Methods of Environmental Interpretation	<u>PMC 690 (4) Park and Rec. Administration</u>
PMC 710 (3) Natural Resource Based Tourism	PMC 710 (3) Natural Resource Based Tourism
Choose 2 credit hours from the following:	Choose 2 hours from the following:
PMC 112 (1) Boat Safety and Navigation Certification	PMC 112 (1) Boat Safety and Navigation Certification
PMC 113 (1) Shooting Sports	PMC 113 (1) Shooting Sports
PMC 114 (1) KS Park and Wildlife Regulations	PMC 114 (1) KS Park and Wildlife Regulations
PMC 115 (1) Adventure Challenge Certif.	PMC 115 (1) Adventure Challenge Certif.
PMC 116 (1) Certif. Interpretive Guide	PMC 116 (1) Certif. Interpretive Guide
PMC 120 (1) Outdoor Recreation Certification	PMC 120 (1) Outdoor Recreation Certification
	<u>WOEM 204 (1) Hunter Education Instructor</u>
SPECIALIZED COURSES (30 hours) Choose 30 or more hours from the following:	SPECIALIZED COURSES (27 hours) Choose 27 or more hours from the following:
Business: (minor in Business)	Business: (minor in Business)
ACCTG 231 (3) Accounting for Business Ops.	ACCTG 231 (3) Accounting for Business Ops.
ACCTG 241 (3) Accounting for Invest. & Finan.	ACCTG 241 (3) Accounting for Invest. & Finan.
FINAN 450 (3) Principles of Finance	FINAN 450 (3) Principles of Finance
MANGT 420 (3) Management Concepts	MANGT 420 (3) Management Concepts
MKTG 400 (3) Introduction to Marketing	MKTG 400 (3) Introduction to Marketing
STAT 350 (3) Business & Econ. Statistics I	STAT 350 (3) Business & Econ. Statistics I
Communications:	Communications:
AGCOM 712 (3) Environmental Comm.	AGCOM 712 (3) Environmental Communications
COMM 320 (3) Theories of Human Comm.	COMM 320 (3) Theories of Human Comm.
COMM 526 (3) Persuasion	COMM 526 (3) Persuasion
ENGL 465 (3) Intro. to Creative Nonfiction	ENGL 465 (3) Intro. to Creative Nonfiction
MC 110 (3) Mass Comm. In Society	MC 110 (3) Mass Comm. In Society
PMC 740 (3) Advanced Environ. Interpretation	PMC 640 (3) Advanced Environ. Interpretation
Any one Modern Language Course	Any one Modern Language Course
Any one Theatre Course	Any one Theatre Course
Law Enforcement Ranger:	Law Enforcement Ranger:
PMC 441 (0-18) Topics/ Park Management and Conservation	PMC 441 (0-18) Topics/ Park Management and Conservation
PMC 441 (12) Topics/ NPS Law Enforcement Academy	PMC 441 (12) Topics/ NPS Law Enforcement Academy

PMC 441 (3) Topics/ NPS Police Officers Standards Training	PMC 441 (3) Topics/ NPS Police Officers Standards Training
Resource Management:	Resource Management:
AGEC 525 (3) Natural Resource & Env. Econ.	AGEC 525 (3) Natural Resource & Env. Econ.
BIOL 222 (1) Field Ornithology	<u>AGRON 501 (3) Range Management</u>
BIOL 303 (3) Ecol. of Environmental Problems	<u>AGRON 560 (1) Field Identification of Range and Pasture Plants</u>
BIOL 504 (3) Plant Ecology	<u>BIOL 201 (5) Organismic Biology</u>
ENTOM 312 (3) General Entomology	BIOL 222 (1) Field Ornithology
GEOG 221 (4) Introductory Physical Geography	BIOL 303 (3) Ecol. of Environmental Problems
GEOG 340 (3) Geography of Natural Resources	<u>BIOL (up to three BIOL courses over 500 level)</u>
GEOG 508 (4) Geographic Information Systems	ENTOM 312 (3) General Entomology
GEOG 605 (3) Remote Sensing of the Environ.	<u>GENAG 582 (3) Natural Resources/Env. Sci. Project</u>
HORT 508 (2) Landscape Maintenance	GEOG 221 (4) Introductory Physical Geography
HORT 515 (2) Basic Turfgrass Culture	<u>GEOG 302 (3) Cartography & Thematic Mapping</u>
HORT 585 (3) Arboriculture	GEOG 340 (3) Geography of Natural Resources
PLPTH 500 (3) Principles of Plant Pathology	GEOG 508 (4) Geographic Information Systems
PMC 575 (3) Water Mgmt. for Natural Resource Managers	GEOG 605 (3) Remote Sensing of the Environ.
	HORT 508 (2) Landscape Maintenance
	HORT 515 (2) Basic Turfgrass Culture
	HORT 585 (3) Arboriculture
	<u>LAR 322 (3) Environmental Issues and Ethics</u>
	<u>PMC 510 (3) Forestry for Park Professionals</u>
	PLPTH 500 (3) Principles of Plant Pathology
	PMC 575 (3) Water Mgmt. for Natural Resource Managers
	<u>PHYS 101 (3) The Physical World</u>
	<u>PHYS 103 (1) The Physical World (Lab)</u>
	<u>FOR 741 (3) Forestry Problems</u>
Social Sciences:	Social Sciences:
GEOG 300 (3) Geography of Tourism	GEOG 300 (3) Geography of Tourism
HMD 230 (3) Issues in Tourism	HMD 230 (3) Issues in Tourism
HIST 511 (3) Environmental History	HIST 511 (3) Environmental History
MANGT 390 (3) Business Law I	<u>HIST (up to 12 hours of HIST courses over 300 level)</u>
PLAN 315 (3) Introduction to City Planning	MANGT 390 (3) Business Law I
POLSC 507 (3) Intro. to Public Administration	PLAN 315 (3) Introduction to City Planning
PSYCH 535 (3) Social Psychology	POLSC 507 (3) Intro. to Public Administration
SOCIO 361 (3) Criminal Justice Systems	PSYCH 535 (3) Social Psychology
	SOCIO 361 (3) Criminal Justice Systems

SOCIO 362 (3) Police and Society		SOCIO 362 (3) Police and Society	
SOCIO 460 (3) Youth and Crime		SOCIO 460 (3) Youth and Crime	
SOCIO 561 (3) Criminology		SOCIO 561 (3) Criminology	
SOCIO 570 (3) Race and Ethnic Relations		SOCIO 570 (3) Race and Ethnic Relations	
FREE ELECTIVES	7	FREE ELECTIVES	<u>6</u>
hours		hours	
Total Hours Required	120	Total Hours Required	120

RATIONALE:

The proposal responds to new Kansas Department of Wildlife and Parks requirements (July 2015) that include 24 hours of natural resource management, several of which are K-State Biology or Agronomy courses at the 500 level or above. Biol 201 Organismic Biology is a prerequisite for many of the Biology courses. Geog 302 Thematic Mapping was added, as it is a recommended elective for upper level GEOG classes (such as GEOG 508 GIS) already in the specialized courses list.

Several courses (LAR 322 Env. Issues, PMC 510 Forestry for Park Mgrs, and PHYS 101,103) were previously required PMC courses and were simply transferred to the specialized course list, in part to reach the 120 hour objective, but also not to penalize students enrolled in an older version of the curriculum who had already taken these classes.

FOR 741 Problems is not a new course but was added to the specialized section to give credit for students engaged in international travel, research or specialized topics.

ANTH 204 was added as an option to ANTH 200, giving students more scheduling flexibility; but with similar learning outcomes; all of which are relevant to PMC expectations.

IMPACT:

The Division of Biology and Agronomy Department have been notified and responded positively.

EFFECTIVE DATE: Fall 2016

College of Technology and Aviation – K-State Polytechnic (November 6, 2015)

NON-EXPEDITED UNDERGRADUATE COURSE ADDITIONS **Courses Numbered 000-599**

Department of Aviation

Primary Contact Person: Dr. Tara L. Harl, Aviation Management Program Lead

Phone: 785-826-2622

Email: Tlharl@ksu.edu

ADD: **AVT 380. Airport Operations.** (4) Spring. A study of the daily operations of an airfield in compliance with regulatory agencies, understanding the role of liaison to airport staff regarding operations, development of department budgets, knowledge of effective supervisory practices and principles, ability to plan and carry out airport operations and development programs under airport management matrix. Three hours lec. and three hour lab per week.
K-State 8:
• None

RATIONALE: Curriculum was designed with industry experts recommending an Airport Operations course be added to the curriculum as this is a vital area of airport management that students should have knowledge of.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

ADD: **AVT 480. Airport Global Issues.** (3) Spring. An introduction to the economic, political, and civic challenges that impact the profitability of airports worldwide and the steps being taken by the airport industry and international governing bodies to address them. Pr.: AVT 380 and Junior Standing.
K-State 8:
• Global Issues and Perspective

RATIONALE: Curriculum was designed with industry experts recommending all airport management students should have knowledge of the global issues challenging the industry since the world's airports are by nature, interdependent. K-State 8: Airport management positions demand knowledge of current global issues and their affect upon financial and political decisions. Students will be introduced to issues such as globalization, sustainability, political and governance context from around the world.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

ADD: **AVT 482. Aviation Ethics and Leadership.** (3) Fall. Students acquire an understanding of core leadership values demanded by the aviation industry, understand leadership challenges facing the aviation industry, and identify personal leadership styles and their most effective implementation within industry.
K-State 8:
• Ethical Reasoning and Responsibility

RATIONALE: Curriculum was designed with industry experts recommending students have an understanding of the ethical challenges they will face within the realm of airport management and how to develop a leadership foundation from which to draw knowledge to address these challenges. K-State 8: Students will identify personal leadership styles and their most effective implementation with industry while being exposed to a variety of ethical perspectives and multiple avenues of resolving ethical dilemmas in order to be responsible aviation managers.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 115. Multi-rotor Flight Lab.** (1) Spring. Ab initio through advanced flight training on multi-rotor unmanned aircraft, beginning with small quad-copters and progressing to larger, more complex multi-rotor platforms. This course establishes the foundation for additional training necessary to become a multi-rotor flight instructor. Two hours of lab per week.
K-State 8:

- None

RATIONALE: This course is necessary as the entry point for advancement through the curriculum proposed to emulate the FAA Part 141 flight training protocol. It is intended to provide the student with the fundamental skills required to progress through the remainder of the unmanned aircraft systems (UAS) flight courses, both fixed- and rotary-wing.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 275. Small Unmanned Aircraft Maintenance I.** (3) Spring. This course provides students with the knowledge and skill necessary to repair and maintain both fixed- and rotary-wing aircraft during field operations and to ensure continued airworthiness throughout the service life of the aircraft. Instruction emphasizes safe practices, provide an introduction to basic shop tools and machinery used in maintaining sUAS, and develop fundamental skills in platform fabrication and the troubleshooting/repair of the circuits, subsystems and components typically found on sUAS aircraft. Studio format incorporating lecture and lab elements. Pr.: ECET 100.
K-State 8:

- None

RATIONALE: The creation of this course reflects the desire to provide UAS students with a more focused exposure to UAS maintenance practices while covering specifically applicable topics to a greater depth. The K-State UAS program requires the addition of this course to continue to evolve and remain at the forefront of universities developing and implementing competing curricula.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 285. Small Unmanned Aircraft Maintenance II.** (3) Fall. This course provides students with advanced knowledge and a high level of skill in the maintenance and repair of both fixed- and rotary-wing unmanned aircraft and associated systems. The concept of continued airworthiness is emphasized. Topics include advanced techniques in the fabrication and repair of small unmanned aircraft systems and airframes, maintenance of ground support systems and principles of electronic and integrated circuit maintenance, troubleshooting and repair. Studio format incorporating lecture and lab elements. Pr.: UAS 275.
K-State 8:

- None

RATIONALE: The creation of this course reflects the desire to provide UAS students with a more focused exposure to UAS maintenance practices while covering specifically applicable topics to a greater depth. The K-State UAS program requires the addition of this course to continue to evolve and remain at the forefront of universities developing and implementing competing curricula.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 312. Unmanned Aircraft Flight Instructor Ground School.** (6) Fall. Instruction during the first eight weeks of this course covers fundamentals of flight instruction. Preparation of the student to fulfill the role of flight instructor during the remainder of the semester focuses on the skills, techniques and procedures necessary to generate, organize and present lessons in the flight environment. Instruction during the second eight weeks focuses on aspects of flight instruction unique to the field operations and flight

environments associated with unmanned aircraft systems. Pr.: PPIL 113, UAS 115.

K-State 8:

- None

RATIONALE: As UAS become increasingly regulated in the same way that the FAA provides oversight of manned aviation, emulation of the FAA Part 141 training model becomes desirable and necessitates that the curriculum be modified to accommodate the training of UAS flight instructors. Developing the ability to deliver that training is the rationale for creating this course.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 314. Multi-rotor Instructor Flight Lab.** (1) Fall. This course refines advanced multi-rotor skills and provides the practical experience necessary to produce competent multi-rotor flight instructors. Two hours of lab per week. Pr.: PPIL 113, UAS 115.

K-State 8:

- None

RATIONALE: The addition of this course is necessary to continue development of flight and instructional skills in a cadre of students who are becoming increasingly skilled in flying unmanned aircraft as they progress through the curriculum.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 353. Command and Control Links and Circuitry.** (3) Fall. This course provides a detailed examination of the theory and design of UAS command and control (2C) systems and applies this knowledge to develop a thorough understanding of the principles used in the design, maintenance and repair of 2C circuits and subsystem components. Topics include design choices in component selection, circuit and overall system design concepts and troubleshooting. Studio format incorporating lecture and lab elements. Pr.: UAS 275 or consent of instructor.

K-State 8:

- None

RATIONALE: The command and control functionality of any UAS is the feature that enables not only commanded control, but also autonomous flight. The criticality of this UAS subsystem demands that students are thoroughly grounded in all aspects, practical and theoretical, of all elements of the subsystem and its interfaces with other components of other UAS subsystems. The purpose of offering this course is to provide the breadth and depth of topic to ensure that students obtain the level of competency necessary to achieve the highest level of flight and operational safety and efficiency.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 357. Unmanned Aircraft Fixed-wing Flight Lab.** (2) Spring. Provides an introduction to the use of an external pilot (EP) console to control fixed-wing unmanned aircraft systems (UAS). In the event of a lost communications link, avionics or autopilot failure or other emergency, the external pilot is critical to human-in-the-loop operation of the UAS in effecting a successful recovery of the aircraft. This course develops the skills necessary to ensure students are capable of conducting safe EP operation of fixed-wing UAS during adverse flight conditions. Four hours of lab per week. Pr.: UAS 314 and PPIL 114.

K-State 8:

- None

RATIONALE: As noted in the course description, the External Pilot (EP) is a critical component of the UA system, necessary to ensure safety of flight. The addition of this course is requested as part of the curriculum modification necessary to ensure that students are not only competent UAS operators, able to handle emergencies, but also are aware of best safe operations and field practices. The rationale for the addition of this class is to produce students who are maximally schooled and prepared in these areas.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 367. Advanced Unmanned Aircraft Fixed-wing Flight Lab.** (2) Fall. The UAS pilot-in-command (PIC), also referred to as the operator-in-command (OIC), is the person responsible for safe and successful flight operations. At times, the PIC/OIC also assumes the duties of the air vehicle operator (AVO) stationed at the ground control station. Not only must the PIC/OIC/AVO demonstrate the highest proficiency as a pilot, but also be knowledgeable in all aspects of field operations, including standard operating procedures (SOPs), applicable regulations and aircraft performance. The individual acting in this capacity is also a manager and field general, responsible for the activities of the others participating in flight operations. This course prepares the student to oversee professional flight operations as the PIC. Four hours of lab per week. Pr.: UAS 357 and UAS 312.
K-State 8:
• None

RATIONALE: The ability to successfully direct and manage flight and field operations, as a PIC, requires broad knowledge and a unique skillset. The rationale for offering this course is to provide UAS students with the confidence and capacity to conduct flight and field operations in a leadership role.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 387. Crew Resource Management for Unmanned Aircraft Systems.** (3) Fall. This course provides students majoring in unmanned aircraft systems the ability to use all available resources to ensure safe and efficient flight. During the first eight weeks of the semester, aircraft crew performance is reviewed to include the background and philosophy of crew resource management (CRM) communication, decision behavior, team building, workload management, and situational awareness. The second eight weeks of the semester is devoted to those aspects of CRM that are unique to the unmanned aircraft systems field operations and flight environments. Topics include an introduction to pilot-in-command/air vehicle operator-payload operator communications in a simulated multi-crew member flight and ground station environment. Pr.: UAS 115 and PPIL 113.
K-State 8:
• None

RATIONALE: In comparison to the manned aviation environment, unique CRM requirements inhere to the operation of UAS. For example, flying a UAS typically requires two or perhaps three pilots (pilot-in-command, also known as the operator-in-command, the air vehicle operator and the external pilot), several observers, a payload operator, a crew chief and possibly one or more technicians. These rolls are often mandated by the FAA and included in K-State's certificate of authorization (COA) required to legally fly in COA-designated flight areas. The interaction of many participants presents a set of problems different from those found in manned aviation and necessitates the application of crew resource management (CRM) principles in a UAS operational environment that is open to the elements, dependent on different technologies and inclusive of a greater number of crewmembers fulfilling more diverse roles than those encountered in manned-flight aviation. This course is created to instill in UAS students the CRM skills necessary to provide them with the ability to operate safely and efficiently in an environment that differs from that of manned aviation.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 417. Fixed-wing Instructor Flight Lab.** (2) Spring. This is the culminating course intended to prepare students for roles as fixed-wing unmanned aircraft flight instructors. This course furthers develop and refine the flying skills necessary to assume control of the aircraft during adverse circumstances or unusual aircraft attitudes induced by a less experienced pilot. The fixed-wing instructor-in-training is required to demonstrate, in practice, the skills and knowledge obtained in earlier courses covering crew resource management and flight instruction as well as achievement of a high level of piloting skills. Upon successful completion of this course, the student is qualified as a K-State instructor on fixed-wing platforms and as pilot-in-command/operator-in-command during research missions authorized by the unmanned aircraft systems program. Four hours of lab per week. Pr.: UAS 367.

K-State 8:
• None

RATIONALE: Rationale for offering this course is to allow students to complete the flight training sequence begun as freshmen to become qualified to provide K-State sanctioned flight training, and to become more proficient, confident, competent pilots. The addition of this course represents the placement of another restructuring component necessary to the creation of an improved and enhanced curriculum that will maintain program competitiveness.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 461. Autonomous Flight Simulation Lab.** (1) Spring. This course provides the student with simulation on high-end, sophisticated, proprietary autopilot systems in preparation for field operations flying aircraft equipped with similar autopilot/avionics packages. Two hours of lab per week. Pr.: UAS 370. Coreq: UAS 465.

K-State 8:
• None

RATIONALE: This course, in conjunction with UAS 465, provides Department of Aviation Technology majors exposure to much the same material as was provided in AVT 460 which we are requesting be deleted from the curriculum. The reason for this bifurcation of AVT 460 into UAS 461 and UAS 465 is to provide greater flexibility in scheduling simulator time in UAS 461 (necessitated by increasing enrollments) and to refine delivery of material and more focus experiential learning during the autopilot integration to be performed in UAS 465.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 465. Autopilot Integration.** (2) Spring. Using open source ground station software and commercial-off-the-shelf (COTS), open source autopilot firmware and hardware, students learn techniques for integrating autopilots into their selected fixed-wing platform and for exploring precision autonomous flight in preparation for conducting field operations to acquire remotely sensed data. Studio format incorporating lecture and lab elements. Pr.: UAS 370. Coreq.: UAS 461.

K-State 8:
• None

RATIONALE: This course, in conjunction with UAS 461, provides Department of Aviation Technology majors (as opposed to BETB-US majors and students in the non-aviator track of the UAS Minor) exposure to much the same material as was provided in AVT 460 (which we are requesting be deleted from the curriculum). The reason for this bifurcation of AVT 460 into UAS 461 and UAS 465 is to provide greater flexibility in scheduling simulator time in UAS 461 (necessitated by increasing enrollments) and to refine delivery of material and more focus experiential learning during the autopilot integration performed in UAS 465.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

ADD: **UAS 467. Small Unmanned Aircraft Systems Payloads.** (3) Fall. Course content covers various types of sUAS sensor packages and appropriate applications, preparing the student to properly select sensors based on mission profile, data needs and mission objectives. Students develop, design and construct a payload for integration into previously constructed aircraft in preparation for conducting missions to obtain data for post-flight processing. Studio format incorporating lecture and lab elements. Pr.: UAS 465.

K-State 8:
• None

RATIONALE: The addition of this course is necessary to enhance UAS students' knowledge of payload packages, the sensors that, in part, comprise these, and to improve the cognitive and psychomotor skills required to install and integrate payloads and, thus, better prepare them for eventual employment in the field of UAS operations.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

NON-EXPEDITED UNDERGRADUATE COURSE DELETION
Courses Numbered 000-599

Department of Aviation

Primary Contact Person: Dr. Tara L. Harl, Aviation Management Program Lead
Phone: 785-826-2622
Email: Tlharl@ksu.edu

DELETE: AVT 200. Introduction to Airport Management.

RATIONALE: Industry suggest to drop the course, to be replaced with addition of other AVT courses with more depth and rigor focused on airport management knowledge.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

NON-EXPEDITED UNDERGRADUATE COURSE MODIFICATION
Courses Numbered 000-599

Aviation Department

Primary Contact Person: Dr. Tara L. Harl, Aviation Management Program Lead
Phone: 785-826-2622
Email: Tlharl@ksu.edu

FROM: ~~AVT 461. Airport Planning and Management I. (3) Spring. An in depth overview of the Federal Aviation Regulation part 139 airport design standard as well as a study of both landside and airside airport business management, utilizing the American Association of Airport Executive's Body of Knowledge modules. Includes a study of the role of the airport in community development. Major course project required. Pr.: PPIL 111 and PPIL 143. K-State 8:~~

- None

TO: AVT 461. Airport Management. (4) Spring. An in depth study of both landside and airside airport business management, utilizing the American Association of Airport Executive's Body of Knowledge modules. Includes a study of the role of the airport in community development. Three hours lec. and three hour lab per week. Pr.: AVT 380 and PPIL 111. K-State 8:

- None

RATIONALE: Curriculum was designed with industry experts recommending this course be a full semester with addition of lab time insuring a more rigorous level of critical knowledge retention.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

FROM: ~~AVT 462. Airport Planning and Management II. (3) Fall. A further study of airport planning and management practices utilizing the American Association of airport Executive's Body of Knowledge. Major course project required. Pr.: AVT 461. K-State 8:~~

- None

TO: AVT 462. Airport Planning. (4) Fall. A study of airport planning and practices to understand FAR Regulation part 139 airport design standard as well as a study of both landside and airside planning issues utilizing the American Association of Airport Executive's Body of Knowledge modules. Three hours lec. and three hour lab per week. Pr.: AVT 461. K-State 8:

- None

RATIONALE: Curriculum was designed with industry experts recommending this course be a full semester with addition of lab time insuring a more rigorous level of critical knowledge retention.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

FROM: **AVT 560. Airport Master Planning and Design.** (3) Spring. Examination of the requirements and resources used to plan, fund and construct airport projects or modifications to show the airport manager's role in project development. Components and organization of the Airport Master Plan (AMP) and Airport Layout Plan (ALP) are studied in outlines and existing plans to show applicability to local conditions and with emphasis on FAR Part 77 and AC 150/5300-13. Typical projects are reviewed for Airport Capital Improvement Funding and utilization of Computer Assisted Design (CAD). Student case study research will be integrated to assess a project's feasibility. Pr.: AVT 360, AVT 361, and AVT 462.

K-State 8:

- None

TO: **AVT 560. Airport Master Planning and Design.** (4) Spring. Requirements and resources used to plan, fund, and construct an Airport Master Plan (AMP) and an Airport Layout Plan (ALP) with emphasis on FAR Part 77 and AC 150/5300-13 requirements. Student case study research will be integrated to assess a project's feasibility. Three hours lecture and three hour lab per week. Pr.: AVT 360, AVT 361, and AVT 462.

K-State 8:

- None

RATIONALE: Curriculum was designed with industry experts recommending course have addition of lab time insuring a more rigorous level of critical knowledge retention for hands-on skill sets.

IMPACT: No impact on any other department.

EFFECTIVE DATE: Fall 2016

Primary Contact Person: Dr. Michael Most, Unmanned Aircraft Systems Program Lead

Phone: 785-826-2681

Email: mtmost@ksu.edu

FROM: **AVT 470. UAS Flight and Data Acquisition Lab.** (3) Fall. Emphasis is on advanced unmanned aircraft systems operations in the live flight environment, ~~to include further development of payload operator skills and techniques in the acquisition, processing, and post-flight analysis of remotely sensed data.~~ Emphasis is on experiential learning. Students are required to travel to an area designated for flight operations. Studio format incorporating predominantly lab components with less emphasis on lecture. Pr.: ~~AVT 460.~~

TO: **UAS 470. Flight and Field Operations.** (3) Fall. Emphasis is on advanced unmanned aircraft systems operations in the live flight environment with a focus on safety and crew resource management. Emphasis is on experiential learning. Students are required to travel to an area designated for flight operations. Studio format incorporating predominantly lab components with less emphasis on lecture. Pr.: UAS 461 and UAS 465.

RATIONALE: The course numbering modification is necessary to maintain consistency throughout curriculum upgrade; alteration of the course title and description is requested to better convey content of the class as it has evolved; removal of the word "Lab" is appropriate because the course is listed as being taught in a studio format. Changes in course prerequisites are necessitated by curriculum modifications that include the deletion of AVT 460 and its replacement with UAS 461 and UAS 465.

IMPACT: No impact on other departments.

EFFECTIVE DATE: Fall 2016

NON-EXPEDITED UNDERGRADUATE CURRICULUM MODIFICATIONS

Department of Aviation

Bachelor of Science in Aeronautical Technology, Airport Management option (BATN-AP)

CURRENT: Airport Management option, 124 Credit hours

Freshman

Fall Semester (14 credit hours)

AVT 100	Introduction to Aviation	3
ENGL 100	Expository Writing I	3
MATH 100	College Algebra	3
PPIL 111	Private Pilot.....	4
PPIL 113	Private Pilot Flight Lab.....	4
or		
AVT 120	Aeronautical Program Flight Familiarization.....	1

Spring Semester (16 credit hours)

AVT 242	Aviation Meteorology.....	4
COMM 106	Public Speaking I	3
MATH 150	Plane Trigonometry	3
PPIL 112	Professional Instrument Pilot.....	3
	Computer Elective	3

Sophomore

Fall Semester (16 credit hours)

BUS 110	Introduction to Business.....	3
ECON 110	Principles of Macroeconomics.....	3
ENGL 200	Expository Writing II.....	3
PHYS 113	General Physics I.....	4
PSYCH110	General Psychology.....	3

Spring Semester (15 credit hours)

AVT 200	Introduction to Airport Management.....	3
ECON 120	Principles of Microeconomics.....	3
ENGL 302	Technical Writing.....	3
MATH 205	General Calculus and Linear Algebra.....	3
	Natural Science Elective.....	3

Junior

Fall Semester (14 credit hours)

AVT 360	Airport Law.....	3
AVT 361	Airport Environmental Studies.....	3
	Aviation Elective.....	2
	Business Elective.....	3
	Humanities/Social Science Elective.....	3

Spring Semester (15 credit hours)

AVT 250	Safety & Security of Airport Ground Operations.....	3
AVT 340	Human Factors in Aviation.....	3
AVT 440	Air Carrier Operations.....	3
AVT 461	Airport Planning and Management-I.....	3
BUS 315	Supervisory Management.....	3

Senior

Fall Semester (18 credit hours)

AVT 450	Aviation Safety Management.....	3
AVT 462	Airport Planning and Management II.....	3
COT 495	Industrial Internship.....	3
PHILO 390	Business Ethics.....	3
STAT 325	Introduction to Statistics.....	3
	Aviation Elective*.....	3

Spring Semester (16 credit hours)

AVT 446	Corporate and Business Aviation Management.....	3
AVT 464	Airport Certified Manager.....	1
AVT 560	Airport Master Planning and Design.....	3
MKTG 400	Introduction to Marketing.....	3
	Aviation Elective*.....	3
	Humanities/Soc Sci./Business/Mgmt. Elective.....	3

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

PROPOSED: Airport Management option 124 credit hours

Freshman

Fall Semester (16 credit hours)

AVT 100	Introduction to Aviation	3
CMST 108	PC Desktop Software.....	3
ENGL 100	Expository Writing I	3
MATH 100	College Algebra.....	3
PPIL 111	Private Pilot.....	4

Spring Semester (15 credit hours)

BUS 110	Introduction to Business.....	3
COMM 106	Public Speaking I	3
ECON 110	Principles of Macroeconomics.....	3
MATH 150	Plane Trigonometry.....	3
PSYCH110	General Psychology.....	3

Sophomore

Fall Semester (16 credit hours)

AVT 340	Human Factors in Aviation.....	3
ENGL 200	Expository Writing II.....	3
PHILO105	Introduction to Critical Thinking.....	3
PHYS 113	General Physics I.....	4
STAT 325	Introduction to Statistics.....	3

Spring Semester (16 credit hours)

AVT 250	Safety & Security of Airport Ground Operations.....	3
AVT 380	Airport Operations.....	4
BUS 251	Financial Accounting.....	3
BUS 315	Supervisory Management.....	3
	Natural Science Elective.....	3

Junior

Fall Semester (15 credit hours)

ENGL 302	Technical Writing.....	3
MANGT366	Information Technology for Business.....	3
MANGT390	Business Law.....	3
PHILO 390	Business Ethics.....	3
	Humanities/Social Science Elective.....	3

Spring Semester (16 credit hours)

AVT 461	Airport Management.....	4
AVT 480	Airport Global Issues.....	3
MANGT420	Management Concepts.....	3
MKTG 400	Introduction to Marketing.....	3
	Humanities/Social Science Elective.....	3

Senior

Fall Semester (16 credit hours)

AVT 360	Airport Law.....	3
AVT 361	Airport Environmental Studies.....	3
AVT 462	Airport Planning.....	4
AVT 482	Aviation Ethics & Leadership.....	3
	*Restricted Elective.....	3

Spring Semester (14 credit hours)

AVT 464	Airport Certified Manager.....	1
AVT 560	Airport Master Planning and Design.....	4
AVT 498	Research Project.....	3
MANGT531	Human Resource Management.....	3
Choose one of the following:		
AVT 448	Aviation Legislation.....	3
OR		
COT 495	Industrial Internship.....	3

*Choose from BUS 252 or MANGT 530.

RATIONALE:

The current program is one of only a handful of Airport Management degree tracks in the US. Industry advisors suggest a more rigorous program to meet workforce challenges in the 21st

century. Strengthening of the degree will place KSU as possibly a first-in-the-nation for its course offerings, of all airport management degree programs.

IMPACT:

The program revision amps up the business course requirements, while revising and deleting some English and Science courses, all within the Arts, Sciences, and Business Department. Airport industry professional consultation has advised those areas that are critical for an airport management major to attain confidence in, and others, while solid areas of study, are not *the* most critical to include as students prepare for their professional careers.

EFFECTIVE DATE:

Fall 2016

Bachelor of Science in Aeronautical Technology, Unmanned Aircraft Systems option (BATN-US)

CURRENT: Unmanned Aircraft Systems option, 127 credit hours

Freshman

Fall 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 Semester (17 credit hours)

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

Sophomore

Fall Semester (16 credit hours)

AVT 317	Composites I.....	3
AVT 370	UAS Design.....	3
ENGL 200	Expository Writing II.....	3
MATH 205	General Calculus and Linear Algebra.....	3
PHYS 113	General Physics I.....	4

Spring 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

Junior

Fall Semester (15 credit hours)

AVM 305	Introduction to Aircraft Avionics and Instrument Systems.....	3
AVT 327	Avionics Repair.....	3
ECON 110	Principles of Macroeconomics.....	3
PSYCH110	General Psychology.....	3
	Computer Elective.....	3

Spring Semester (16 credit hours)

AVT 460	UAS Mission Planning and Operations.....	3
BUS 315	Supervisory Management.....	3
CMST 250	Networking I.....	3
ECET 110	Semiconductor Electronics.....	4
MKTG 400	Introduction to Marketing.....	3

Senior

Fall Semester (15 credit hours)

AVT 450	Aviation Safety Management.....	3
AVT 470	UAS Flight and Data Acquisition Lab.....	3
STAT 325	Introduction to Statistics.....	3
	Aviation/Electronics Elective*.....	3

Spring Semester (15 credit hours)

AVT 497	Senior Project.....	3
	Aviation Elective*.....	3
	Aviation/Computer Elective.....	3
	Humanities/Social Science Elective*.....	3
	Natural Science Elective.....	3

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

PROPOSED: Unmanned Aircraft Systems option, 127 credit hours

Freshman

Fall Semester (17 credit hours)

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

Spring Semester (14 credit hours)

<u>ECON 110</u>	<u>Principles of Macroeconomics.....</u>	<u>3</u>
<u>MATH 205</u>	<u>General Calculus and Linear Algebra.....</u>	<u>3</u>
PPIL 112	Professional Instrument Pilot.....	3
PPIL 114	Professional Instrument Pilot Flight Lab.....	1
<u>UAS 115</u>	<u>Professional UAS Multi-rotor Flight Lab.....</u>	<u>1</u>
<u>UAS 270</u>	<u>Introduction to Unmanned Aircraft Systems.....</u>	<u>3</u>

Sophomore

Fall Semester (17 credit hours)

<u>ECET 100</u>	<u>Basic Electronics.....</u>	<u>4</u>
<u>MATH 150</u>	<u>Plane Trigonometry.....</u>	<u>3</u>
<u>UAS 312</u>	<u>UAS Flight Instructor Ground School.....</u>	<u>6</u>
<u>UAS 314</u>	<u>Multi-rotor Instructor Flight Lab.....</u>	<u>1</u>
<u>UAS 370</u>	<u>Small Unmanned Aircraft Systems Design and Construction.....</u>	<u>3</u>

Spring Semester (18 credit hours)

AVT 340	Human Factors in Aviation.....	3
ENGL 200	Expository Writing II.....	3
PSYCH110	General Psychology.....	3
PHYS 113	General Physics I.....	4
<u>UAS 275</u>	<u>Small Unmanned Aircraft Maintenance I.....</u>	<u>3</u>
<u>UAS 357</u>	<u>Unmanned Aircraft Fixed-wing Flight Lab.....</u>	<u>2</u>

Junior

Fall Semester (17 credit hours)

BUS 110	Introduction to Business.....	3
<u>COMM 106</u>	<u>Public Speaking I.....</u>	<u>3</u>
<u>UAS 285</u>	<u>Small Unmanned Aircraft Maintenance II.....</u>	<u>3</u>
<u>UAS 353</u>	<u>Command and Control Links and Circuitry.....</u>	<u>3</u>
<u>UAS 367</u>	<u>Advanced Unmanned Aircraft Fixed-wing Flight Lab.....</u>	<u>2</u>
<u>UAS 387</u>	<u>Crew Resource Management for Unmanned Aircraft Systems.....</u>	<u>3</u>

Spring Semester (14 credit hours)

BUS 315	Supervisory Management.....	3
ENGL 302	Technical Writing.....	3
STAT 325	Introduction to Statistics.....	3
<u>UAS 417</u>	<u>Fixed-wing Instructor Flight Lab.....</u>	<u>2</u>
<u>UAS 461</u>	<u>Autonomous Flight Simulation Lab.....</u>	<u>1</u>
<u>UAS 465</u>	<u>Autopilot Integration.....</u>	<u>2</u>

Senior

Fall Semester (15 credit hours)

AVT 450	Aviation Safety Management.....	3
<u>UAS 300</u>	<u>Unmanned Aircraft Systems Powerplant Fundamentals.....</u>	<u>3</u>
<u>UAS 467</u>	<u>Small Unmanned Aircraft Systems Payloads.....</u>	<u>3</u>
<u>UAS 470</u>	<u>Flight and Field Operations.....</u>	<u>3</u>
	Aviation Elective*.....	3

Spring Semester (15 credit hours)

AVT 445	Aviation Law.....	3
	Aviation/Electronics/Computer Elective*.....	3

Humanities/Social Science/Business Elective3
Natural Science Elective3

Culminating Experience 3 hours (choose from the following):
AVT 497 Senior Project.....3
COT 495 Industrial Internship.....3
ETB 480 UAS Senior Design Project I1
and
ETB 481 UAS Senior Design Project II2

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

Rationale: The enterprise and the pedagogy of unmanned flight are currently experiencing a period of rapid growth and proteanism. As an increasing number of universities and community colleges implement programs in Unmanned Aircraft Systems (UAS) and the technology continues to evolve, the challenge of remaining at the forefront of academic programs increases. The proposed curricular revision will create an innovative educational structure that emulates the FAA Part 141 model, a concept unique among competing university programs. Moreover, the proposed changes will provide greater depth in the curriculum and produce graduates better grounded in the technology and more prepared for employment. Implementation of this curricular revision will maintain the position of K-State as a leader in UAS education. The requested modification will improve the existing curriculum to the extent that what is a highly regarded program will become an academic offering without peer.

Impact: The restructuring of the UAS curriculum necessitates deletion and relocation to other semesters of multiple courses. These modifications will affect the following KSUS departments: Aviation Technologies, Engineering Technologies and Arts, Sciences and Business. These departments have been advised of the restructuring and provided an opportunity to review the proposed changes.

Effective Date: Fall 2016

Unmanned Aircraft Systems Minor (RUAS)

Intended for those not majoring in unmanned aircraft systems (UAS), the UAS minor provides a solid grounding in topics that include the current regulatory environment, platform design and field operations with an emphasis on the acquisition of information and processing of data obtained through low altitude remote sensing and surveillance. Students pursuing majors in areas such as manned aviation, agriculture, biology, civil engineering, criminal justice, ecology, emergency management, environmental sciences, geography, geology, landscape architecture and wildlife science and management may benefit from completion of this academic minor, particularly those individuals whose academic interests or career goals include the use of remotely sensed data products for research or commercial spatial, metric or informatory applications.

Two areas of emphasis are provided to accommodate students having diverse interests: The Air Vehicle Operations Focus is intended for those holding the minimum of an FAA-issued private pilot license with an instrument rating (or equivalent) and are interested in field operations and in flying unmanned aircraft in the National Airspace; The Data Acquisition and Management Focus, is offered for those whose academic or career goals require greater knowledge of the acquisition and use of information and data obtained from the operation of unmanned aircraft as remote sensing platforms.

Minor Requirements (15 Hours)

Due to course sequencing, a minimum of four semesters in residence will be required for completion of the minor. Students must achieve a minimum GPA of 2.5 and a grade of "C" or better is required in all coursework.

Current

Required Courses (9 hours)

AVT 270	Introduction to Unmanned Aircraft Systems.....	3
COT 674	Processing Techniques for Low Altitude Remotely Sensed Data	3
COT 675	Acquisition and Advanced Processing of LARS Data	3

Elective Courses (6 hours)

AVT 370	UAS Design	3
AVT 373	UAS Design for Non-Aviators	3
AVT 460	UAS Mission Planning and Operations.....	3
AVT 463	UAS Mission Planning and Operations for Non-Aviators	3

Proposed

Required Courses (9 hours)

UAS 270	Introduction to Unmanned Aircraft Systems.....	3
COT 674	Processing Techniques for Low Altitude Remotely Sensed Data	3
COT 675	Acquisition and Advanced Processing of LARS Data	3

Elective Courses (6 hours)

UAS 370	<u>Small Unmanned Aircraft Systems Design and Construction</u>	<u>3</u>
UAS 373	UAS Design for Non-Aviators	3
UAS 461	<u>Autonomous Flight Simulation Lab</u>	<u>1</u>
UAS 463	<u>Introduction to Autopilots and Mission Planning for Non-Aviators.....</u>	<u>3</u>
UAS 465	<u>Autopilot Integration</u>	<u>2</u>

RATIONALE:

The requested modification to the Unmanned Aircraft Systems Minor is exclusively driven by a substantial revision to the UAS curriculum intended to improve existing course structure and content while maintaining K-State UAS at the forefront of competing programs offered at other institutions. The curricular emendations and amendments include multiple changes to course titles, numbers and content. All requested modifications to the RUAS minor directly result from changes to the UAS courses constituent to the minor.

IMPACT:

No impact on any other department.

EFFECTIVE DATE:

Fall 2016

NON-EXPEDITED UNDERGRADUATE CURRICULUM DELETION

Department of Aviation

Primary Contact Person: Eric Shappee
Aviation Acting Department Head
Phone: 785-826-2630
Email: wjfpmd@k-state.edu

DROP: Bachelor of Aeronautical Technology, Avionics Management and Systems option (BATN-AV)

RATIONALE: This degree option has had chronic low enrollment. The department feels that departmental resources are better utilized in other degree options.

IMPACT: The Avionics Certificate will still be offered and available for students. No additional impact is expected.

EFFECTIVE DATE: Fall 2016

Graduate Course and Curriculum Changes (11-3-15)

Non-Expedited New Course Educational Leadership

EDACE 834. Leading Adults in a Globalized and Diverse World. (3) I. This course provides an introduction to the foundations of adult education leadership in the context of managing a culturally diverse workforce. Concepts of globalization as well as cross-cultural and international environments as they relate to adult education leadership are emphasized through theory to practice projects and research.

IMPACT: Focus on adult education field. No impact to other departments.

RATIONALE: Social justice issues are a major focus for the adult education field. This course would also support the COE Social Justice Graduate Certificate and the Adult Education Leadership Graduate Certificate programs. It was introduced as a special topics course and has had good enrollments.

EFFECTIVE DATE: Spring 2016

EDACE 845. Social Media and Adults in the 21st Century. (3) II. This course addresses the most popular social media and helps students understand the promise and challenge that social media has brought to 21st century working adults. Example topics include but are not limited to Social Media and adult learning, Social Media in the workforce, and new technology literacy in 21st century.

IMPACT: Focus on adult education field. No impact to other departments.

RATIONALE: At this request of online students a few years ago, this course was developed to meet the demand to understand the growing interest in technology and adult learners. This course looks at social media as a form of communication as well incorporation into teaching environments.

EFFECTIVE DATE: Spring 2016

Olathe School of Applied and Interdisciplinary Studies

AAI 795. Topics in Applied and Interdisciplinary Studies. (1-3) I, II, III. Selected topics in applied and interdisciplinary studies. Note: 100% lecture.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 801. Interdisciplinary Process. (3) I, II. The overall goal of this course is for students to develop an understanding of and practice in design thinking as both a framework that allows interdisciplinary and cross-function teams to work together and as a process to generate imaginative and creative solutions to complex challenges and problems. Note: 100% Studio.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015

and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 840. Regulatory Aspects of Drug and Vaccine Development in the Animal Health Industry. (2) I, II. This course explores the topic of regulations associated with animal health product development and manufacturing. Topics for discussion will include an overview of the regulatory affairs process in the U.S. and other countries, drug and vaccine classifications and the approval process, GCP/GLP guidelines, drug and vaccine efficacy and safety testing, human and environmental safety issues, and future challenges and current industry needs. Note: 100% Lecture.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve. Specifically, the ASI, AP, and DMP departments have reviewed the course proposal and confirmed that the offering would not overlap with ASI, AP, or DMP course offerings.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 858. Capstone Experience I. (1) I, II, III. This course provides students the opportunity to synthesize and integrate knowledge in its application to professional practice. It is designed for students who intend to work in an applied professional setting where they are expected to critically apply existing knowledge and methods to solve problems. Students will complete a project on a topic of interest, in consultation with the instructor. Note: 100% Individual Instruction.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 859. Capstone Experience II. (2) I, II, III. This course provides students the opportunity to synthesize and integrate knowledge in its application to professional practice. It is designed for students who intend to work in an applied professional

setting where they are expected to critically apply existing knowledge and methods to solve problems. Students will produce written reports and oral presentations on their project of focus. Note: 100% Individual Instruction.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 870. Seminar in Applied and Interdisciplinary Studies. (1-6) I, II, III. Student presentations and discussion of current topics and recent findings in applied and interdisciplinary studies. Note: 100% Seminar.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 880. Problems in Applied and Interdisciplinary Studies. (1-6) I, II, III. Opportunity for advanced independent study of a specific problem or technique in applied and interdisciplinary studies. Topics selected jointly by student and instructor. Note: 100% Independent Study.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 895. Advanced Topics in Applied and Interdisciplinary Studies. (1-6) I, II, III. Focus on advanced topics in applied and interdisciplinary studies. Note: 100% Lecture.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

AAI 899. Research in Applied and Interdisciplinary Studies. (1-6) I, II, III. Research with a focus on applied science and interdisciplinary studies. Note: 100% Research.

Impact: We collaborated with partner departments in an effort to prevent duplication of curricula, and we confirmed that there are no conflicts. We sent the curriculum proposal to the relevant department heads and program directors on May 14, 2015 and have received responses indicating positive support (and no objections). We submitted the curriculum proposal to the Deans Council on June 1, 2015, and the Council members voted unanimously to approve.

Rationale: This course will be one of the standard offerings under the proposed Professional Science Masters Applied Science and Technology that has been designed for delivery at the K-State Olathe campus. Market demand information was quantified through surveys of more than 100 employers across 6 economic sectors in the Kansas City area. Additionally, K-State Olathe faculty and staff have collected qualitative input through focused discussions with regional employers and employees over the last 3 years and strategic planning sessions with the K-State Olathe advisory board over the last 2 years. The results show strong interest in a Professional Science Master's program being offered at the K-State Olathe campus.

Effective Date: Fall 2016

Economics

ADD: ECON 605 – Economic Applications of Game Theory and Strategic Behavior. (3) I, II. Basic principles of game theory including Nash equilibria, repeated games, and strategy with incomplete information. Lecture course. Pr.: ECON 520 or 521; MATH 205 or 220. K-State 8: Social Sciences; Empirical and Quantitative Reasoning.

K-STATE 8 RATIONALE: Game theory relies heavily on mathematical modeling. The applications in economics often refer to behavior or societal settings where decisions can be best modeled as outcomes of strategic interaction.

RATIONALE: This is a popular course for undergraduate majors at other institutions. We feel this will make our majors more competitive when seeking employment.

IMPACT: No Impact.

EFFECTIVE DATE: Spring 2016

Geography

ADD: GEOG 861 – Human Impact on the Environment. (3) II. Assessment of human impacts on and attitudes towards the environment, and details alteration of water systems, the atmosphere, landforms, plants, and animals. Pr.: Six hours of social science.

RATIONALE: The current version of this class (GEOG 760) is often taken by graduate students. Many of those students would prefer to receive credit for an 800-level class rather than for a 700-level class. By offering the class as GEOG 761/861, undergraduate students would enroll in GEOG 761 and graduate students would enroll in GEOG 861. Students enrolled in GEOG 861 would be expected to perform at a higher level in seminar meeting discussions, lead an additional 2-3 seminar sessions that discuss class readings, read and discuss with the seminar longer and more challenging class readings, and complete a longer and higher quality independent research project than would students who take the class as GEOG 761. Generally, the research project for students enrolled in GEOG 861 should be related to the student's MA thesis or PhD dissertation work.

IMPACT: None

EFFECTIVE DATE: Spring 2016

Modern Languages

ADD: MLANG 720 – Introduction to Literary Theory and Research Methodology. (3) as needed. An overview of theoretical approaches and classical texts that inform current trends in literary research in the modern languages.

RATIONALE: The Department of Modern Languages currently offers a Master of Arts degree with a track in literary studies. While theory and methodologies are introduced in many of the literature courses in this program, there is no existing course that gives a systematic and comprehensive overview of the theoretical and methodological approaches current in foreign language literary studies. Such a course would complement existing literature courses and better prepare our Master's students who wish to enter Ph.D. programs.

IMPACT: None

EFFECTIVE DATE: Spring 2016

Course Add
GERON 774 Environments and Aging
Credits: (3)
Using interdisciplinary perspectives the course will explore the preferences and needs of older adults and the attributes of various physical environments that hinder and facilitate successful adaptation by the aging individual. Students apply this knowledge to the design and management of Housing, institutional facilities, neighborhoods, and communities.
When Offered: Spring
Pre-Requisites: Graduate level classification, or undergraduate student with instructor permission.

Rationale This course has been offered as a topics course in the Masters in Gerontology. Since it is one of the core courses for that program it needs to have a permanent course number. The course will continue to be offered at least once each year for students in the Masters in Gerontology and in the Graduate Certificate in Gerontology through the Great Plains IDEA program. It was previously offered as an on-campus class through the College of Architecture. The instructor for that class retired and the class is no longer taught by that department/college and is no longer listed in the graduate catalog (ARCH 730).

IMPACT: None.

Effective: Spring 2016

Department of Interior Architecture & Product Design
(Master of Interior Architecture & Product Design, Non-Baccalaureate & Post-Baccalaureate Tracks)

New Courses

Effective: Spring 2016

Impact on Other Units: None

Course: **IAPD 605 Problems in IAPD**

Catalog Description: Study of specific problems related to interior architecture, product design, and furniture design.

Note: Repeatable

Credits: (variable 1-18)

Requisites: None

When Offered: Fall, Spring, Summer

K-State 8: Aesthetic Interpretation

Rationale: Creating a 600 level course number will allow courses to be offered at either the graduate or undergraduate level.

Course: **IAPD 610 Advanced Digital Applications and Fabrications**

Catalog Description: Exploration of advanced representation and fabrication techniques for the design professions.

Credits: (3)

Requisites: None

When Offered: Fall, Spring, Summer

K-State 8: Aesthetic Interpretation

Rationale: This course will serve as an elective option for students in APDesign and give a more in-depth look at advanced applications.

Course: **IAPD 680 Production Furniture for the Contract Market Research**

Catalog Description: Introduction and implementation of market research; client end-user research; manufacturing implications; BIFMA and other testing requirements; and, competitive market analysis and implications to develop a complete "design brief" for a line of contract furniture within a major manufacturer's existing line.

Credits: (1)

Requisites: None

When Offered: Fall

K-State 8: None

Rationale: This course has been offered previously under the IAPD topics course number and since it is planned to be offered more frequently should have its own course number.

Course: **IAPD 681 Production Furniture for the Contract Market Design**

Catalog Description: This course builds upon the knowledge gained and the design brief developed in IAPD 680, Production Furniture for the Contract Market Research and develops the designers' understanding of intersecting forces affecting the design of a line of furniture, from conception to final production. Students work in teams with a manufacturer in the design and development of a line/family of products – expectations of design, prototyping, royalties and licensing – as well as the manufacturing processes and knowledge of effectively specifying furnishings.

Credits: (2)

Requisites: IAPD 680

When Offered: Spring

K-State 8: None

Rationale: This course has been offered previously under the IAPD topics course number and since it is planned to be offered more frequently should have its own course number.

Non-Expedited Course Changes

Sociology, Anthropology, and Social Work

FROM: ANTH 680 – ~~Survey of Forensic Sciences. (3) II~~, even years. Anthropological survey of the predominantly biological areas of forensic science, their methods and techniques, as they pertain to the application of that science to the purpose of the law. Particular emphasis will be given to perspectives about the science itself, its application to anthropology, and the unique ways in which that science may be used by law. Pr.: A life science with laboratory requirement in the College of Arts and Sciences or the consent of the instructor. ~~K-State 8: None.~~

TO: ANTH 680 – Forensic Anthropology. (4) II, even years. Applies osteological methods to determine identity, mode and manner of death, as well as time since death in a medico-legal setting. Construction of biological profiles to estimate sex, age, stature, body mass, and to identify mode and manner of death as well as time since death from skeletal human remains. Pr.: A life science with laboratory requirement in the College of Arts and Sciences or the consent of the instructor. K-State 8: Empirical and Quantitative Reasoning; Natural and Physical Sciences.

K-State 8 RATIONALE: Through hands-on exercises students will develop an understanding of the methods (both qualitative and quantitative) that can be used to identify human remains. The application of methods requires both quantitative reasoning (e.g. measurements, ratios, graphing, algebraic formulas), and empirical deductive thinking.

RATIONALE: We are requesting a class name change, a change in the number of credits, and an updating of the course description. ANTH 680 is currently named "Survey of Forensic Sciences", and we would like for it to be named "Forensic Anthropology". While Dr. Finnegan, the former instructor, reviewed different areas of forensic sciences, this class will now focus on the application of bio-anthropological methods in the identification of human remains and the determination of mode and manner of death in the medico-legal setting. Thus, the proposed name change better reflects the content of the updated class. This is a methods class with a heavy emphasis on laboratory, hands-on, and application, that will increase the availability of methods classes for our students. Due to the emphasis on laboratory work, technical writing, and hands-on examination of human remains, we are asking for this class to be changed from 3 to 4 credits. The addition of a credit, will allow us to schedule formal laboratory time. To date, students come to work in the laboratory during so called "Open-Lab" times. These, require for the instructor to open the lab, and be present, several times during the week (including the weekend), in addition to the already allocated lecture time) to accommodate students' schedules. By structuring a formal laboratory time, students will understand by the time they register, that the class requires additional time commitment. Moreover, this will allow the instructor to better assess time commitment from the students.

IMPACT: None

EFFECTIVE DATE: Spring 2016

FROM: ~~ANTH 730— Field and Laboratory Techniques in Archaeology. (1-9) S. Participation in archaeological excavations; techniques, methods, and procedures in a field research situation. The laboratory work of cleaning, cataloging, analyzing, and preliminary report preparation of materials recovered. (May be repeated once if the areas or problems involved are different). Pr.: ANTH 200 or 260. K-State 8: None.~~

TO: ANTH 535 – Archaeological Field Methods. (1-9) S. Provides hands-on training in archaeological field methods (i.e., data collection and documentation through archaeological survey and excavation) as part of a research project. (This is a repeatable course). Pr.: Instructor consent (application required). K-State 8: Empirical and Quantitative Reasoning.

K-STATE 8 RATIONALE: The focus of this archaeological field school is to train students in the application of systematic archaeological data collection methods. Students will learn precise methods of gathering and documenting archaeological data in the field, discuss why different methods are used, and apply those to an actual research project. They will gain an understanding of how different methods affect the analysis and interpretation of archaeological data.

RATIONALE: The course number is reduced to an upper-level undergraduate course (with possibility for graduate credit for non-anthropology students); the course title and description are tweaked to emphasize the field orientation of the course (detailed laboratory analysis is not included); the K-State 8 empirical reasoning tag is added as this is a methods course in scientific data collection; and the Enrollment Requirement is adjusted to reflect existing practice (no pre-requisite courses, but students must apply in order to provide necessary information for this field school.)

IMPACT: None

EFFECTIVE DATE: Summer 2016

FROM: ~~ANTH 678— Archaeological Laboratory Methods. (3) I. Hands-on instruction in and application of professional principles of processing, analyzing, and curating artifacts and related archeological materials. Pr.: ANTH 260. K-State 8: None.~~

TO: ANTH 540 – Archaeological Laboratory Methods. (3) I. Hands-on instruction in and application of professional principles of processing, analyzing, and interpreting artifacts and archeological materials. Pr.: ANTH 260 or equivalent. K-State 8: Empirical and Quantitative Reasoning.

K-State 8 RATIONALE: The Archaeological Laboratory Methods employs empirical reasoning and instructs students in the processing, cataloging, analyzing, and interpreting of archaeological data. This involves gathering, organizing, presenting, and evaluating various kinds of archaeological data, the formulation of inferences of hypotheses, and development of credible interpretations.

RATIONALE: Course number has been lowered to better reflect that this course is an upper-level undergraduate course (with possibility for graduate credit for non-anthropology students). K-State 8 designation added.

IMPACT: None

EFFECTIVE DATE: Fall 2016

Journalism and Mass Communications

FROM:

TO:

MC 640 – Advertising Campaigns. (3) I, II. The management, development and execution of consumer, industrial, and institutional advertising campaigns. Pr.: MC 396, MC 446, and MC 480 with grades of C or better, senior standing.	MC 640 – Advertising Campaigns. (3) I, II. The management, development and execution of consumer, industrial, and institutional advertising campaigns. Pr.: MC 396, MC 446, and MC 480 with grades of C or better, senior standing; <u>majors have priority, others by department consent.</u>
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<p>MC 645 – Public Relations Campaigns. (3) I, II. Advanced study of an organization’s public relations needs. Includes researching the situation, analyzing audiences, and preparing strategic plans for approved clients. Pr.: MC 396 and MC 480 with grades of C or better.</p>	<p>MC 645 – Public Relations Campaigns. (3) I, II. Advanced study of an organization’s public relations needs. Includes researching the situation, analyzing audiences, and preparing strategic plans for approved clients. Pr.: MC 396 and MC 480 with grades of C or better; <u>majors have priority, others by department consent.</u></p>
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RATIONALE: Currently, most required class in the A.Q. Miller School curriculum do not have a “majors only” designation.

As we have unprecedented demand for our courses, we are increasingly noticing two undesirable situations: 1) students classified as “pre-majors” who are not yet accepted into the program somehow gain access to many mid-to-upper-level JMC classes anyway, or 2) students from outside the program sometimes get access to these courses. Many of our skills courses must be restricted in size due to accreditation guidelines. We cannot simply schedule extra sections since we do not have the requisite numbers of faculty to do so. Without enrollment restrictions that establish first priority for JMC majors, we find that non-majors, especially upperclassmen who have seniority and resultant earlier enrollment times, often secure seats in classes that JMC students are required to take. This leaves bonafide JMC majors without seats in courses they need to matriculate through our curriculum in a timely manner, often delaying graduation. Restricting enrollment by adding the requirement “majors only or department consent” will go a long way in taking care of this problem. While we welcome students from other majors to take our classes if we have room, we feel that our first duty is to students who apply for the major and attempt to follow the curriculum structure.

IMPACT: Three units besides the A.Q. Miller School require completion of JMC courses for their majors: Animal Science and Industry (the Communications and Marketing sequence), Agriculture Communications and Journalism and the College of Education. All three departments have agreed that as long as we can accommodate their needs by reserving a certain number of seats for their students, they will agree to have their students gain department consent (in lieu of automatically enrolling). The College of Education responded on 3/31/2015 that they have no problem with moving some MC courses to “major only”, as long as their Journalism Education majors are also allowed spots in these classes. Agricultural Communications and Journalism (email on 3/30/2015) support the restriction to JMC students and allocate a given amount of seats for AG Comm and Journalism students based on projections provided. Email of 3/18/2015 from Department of Animal Sciences and Industry, Dave Nichols, supports the changes proposed to manage enrollment.

EFFECTIVE DATE: Spring 2016

Non-Expedited Curriculum Changes

Women’s Studies

Women’s Studies Graduate Certificate

FROM:

TO:

<p>Program Requirements</p> <p>The certificate consists of 12 hours of approved graduate level courses at the 600 level or above in women’s studies and/or gender studies.</p> <p><u>Core course required (3 hours):</u></p> <hr/> <ul style="list-style-type: none"> • WOMST 810 - Gender: An Interdisciplinary Overview Credits: (3) 	<p>Program Requirements</p> <p>The certificate consists of 12 hours of approved graduate level courses at the 600 level or above in women’s studies and/or gender studies.</p> <p><u>Core course required (3 hours):</u></p> <hr/> <ul style="list-style-type: none"> • WOMST 810 - Gender: An Interdisciplinary Overview Credits: (3)
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Elective courses (choose 9 hours from the following list of courses)

Courses followed by a subtitle in parentheses vary and count toward the Women's Studies Graduate Certificate only when offered with the indicated subtitle.

- [WOMST 610 - Capstone Seminar in Women's Studies](#) Credits: (3)
- [WOMST 700 - Advanced Topics in Women's Studies](#) Credits: (1-3)
- [WOMST 784 - Internship in Women's Studies](#) Credits: (1-12)
- [ENGL 605 - Readings in Medieval Literature](#) Credits: (3)
- (~~when offered as~~ The Idea of Work in the Middle Ages)
- [ENGL 625 - Readings in Eighteenth-Century British Literature](#) Credits: (3)
- (~~when offered as~~ Austen, Readings in 18th Century Women, or Restoration Drama)
- [ENGL 660 - Readings in Major Authors](#) Credits: (3)
- (~~when offered as~~ Gender and Performance, George Eliot, Louise Erdrich and Sherman Alexie, Shakespeare, or Austen and Her Legacy)
- [ENGL 670 - Topics in British Literature](#) Credits: (3)
- (~~when offered as~~ Women in the Eighteenth Century)
- [ENGL 680 - Topics in American Literature](#) Credits: (3)
- (~~when offered as~~ In the Shadows of American Literature, Latino/a Literature, or Asian American Literature)
- [ENGL 685 - Topics in Rhetoric and Composition](#) Credits: (3)
- (~~when offered as~~ Feminist Rhetorics)

Elective courses (choose 9 hours from the following list of courses)

Courses followed by a subtitle in parentheses vary and count toward the Women's Studies Graduate Certificate only when offered with the indicated subtitle.

- [WOMST 605 – Women's Studies Practice and Applied Social Change: Field-Experience Research in Organizations](#) Credits: (3)
- [WOMST 610 - Capstone Seminar in Women's Studies](#) Credits: (3)
- [WOMST 700 - Advanced Topics in Women's Studies](#) Credits: (1-3)
- [WOMST 784 - Internship in Women's Studies](#) Credits: (1-12)
- [ANTH 790 – Writing Cultures Ethnographic Methods](#) Credits: (3)
- [COMM 630 – Special Topics in Rhetoric and Communication](#) Credits: (3) (Gender and Communication)
- [EDLEA 837 – Qualitative Research in Education](#) Credits: (3)
- [EDACE 750 - Women, Education, and Work](#) Credits: (2-3)
- [EDCI 735 - Gender Implications for Education](#) Credits: (3)
- [EDCI 886 - Seminar in Curriculum and Instruction](#) Credits: (1-18) (Women, Education, and Leadership)
- [ENGL 605 - Readings in Medieval Literature](#) Credits: (3) (The Idea of Work in the Middle Ages)
- [ENGL 625 - Readings in Eighteenth-Century British Literature](#) Credits: (3) (Austen, Readings in 18th Century Women, or Restoration Drama, or Ghosts and Goths)
- [ENGL 635 – Readings in Twentieth- Century British Literature](#) Credits: (3) (Bloomsbury Group)

<ul style="list-style-type: none"> • ENGL 705 - Theories of Cultural Studies Credits: (3) • ENGL 710 - Studies in a Literary Genre Credits: (3) • (when offered as Gender and Sexuality in American Indian Literature, Restoration & Eighteenth Century Drama, Shakespeare and Children's Literature) • ENGL 720 - Studies in a Major Author Credits: (3) • (when offered as The Brontes, Drama, Shakespeare, or Extreme Shakespeare) • ENGL 730 - Studies in a Literary Period Credits: (3) • (when offered as Restoration and Eighteenth Century Drama, or Classic Girls in a Modern Age) • ENGL 830 - Seminar in Cultural Studies Credits: (3) • (when offered as American Feminisms, or US Latino Studies) • HIST 984 - Topics in American History Credits: (1-3) • (when offered as Gender in American History) • MC 612 - Gender Issues and the Media Credits: (3) • KIN 796 - Topics in Exercise Physiology Credits: (3) • POLSC 606 - Gender and Politics Credits: (3) • POLSC 799 - Pro-Seminar in Political Science Credits: (3) • (when offered as Women and Law) • SOCIO 633 - Gender, Power, and Development Credits: (3) • SOCIO 635 - Sociology of Human Trafficking Credits: (3) • SOCIO 665 - Women and Crime Credits: (3) • SOCIO 670 - Diversity and Social Interaction in the Workplace Credits: (3) • SOCIO 833 - Gender Differentiation and Inequality Credits: (3) 	<ul style="list-style-type: none"> • ENGL 650 – Readings in Twentieth-Century American Literature Credits: (3) (<u>Queer Native Literatures</u>) • ENGL 655 – Readings in American Ethnic Literature Credits: (3) (<u>What is African American Literature? Or Dream Acts: Immigration in Ethnic Literature</u>) • ENGL 660 - Readings in Major Authors Credits: (3) (Gender and Performance, George Eliot, Louise Erdrich and Sherman Alexie, Shakespeare, or Austen and Her Legacy, <u>Whitman, Dickinson, American Indian Literatures, American Gothic, or Louise Erdrich</u>) • ENGL 670 - Topics in British Literature Credits: (3) (Women in the Eighteenth Century) • ENGL 680 - Topics in American Literature Credits: (3) (In the Shadows of American Literature, Latino/a Literature, or Asian American Literature, or <u>Two-Spirit Literature</u>) • ENGL 685 - Topics in Rhetoric and Composition Credits: (3) (Feminist Rhetorics) • ENGL 705 - Theories of Cultural Studies Credits: (3) • ENGL 710 - Studies in a Literary Genre Credits: (3) (Gender and Sexuality in American Indian Literature, Restoration & Eighteenth Century Drama, Shakespeare, Children's Literature, <u>Romances and Saints' Lives, or Jane Austen's Predecessors: Eighteenth Century Women's Novels and Other Writings</u>) • ENGL 720 - Studies in a Major Author Credits: (3) (The Brontes, Drama, Shakespeare, or Extreme Shakespeare) • ENGL 725 – Studies in Children's/Young Adult Literature Credits: (3) (<u>African American Children's Literature</u>) • ENGL 730 - Studies in a Literary Period Credits: (3) (Restoration and Eighteenth Century Drama, or Classic Girls in a Modern Age, <u>Alcott and Twain</u>) • ENGL 740 – Studies in Literary Theory Credits: (3) (<u>African American Literary Theory</u>) • ENGL 755 – Studies in Composition and Rhetoric Credits: (3) (<u>Power and Persuasion</u>)
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<ul style="list-style-type: none"> • SOCIO 933 - Gender & Society Credits: (3) • THTRE 782 - Women in Theatre Credits: (3) • EDCI 735 - Gender Implications for Education Credits: (3) • EDCI 886 - Seminar in Curriculum and Instruction Credits: (1-18) • (Women, Education, and Leadership) • EDACE 750 - Women, Education, and Work Credits: (2-3) • MFT 869 - Systematic Treatment of Domestic Violence and Substance Abuse Credits: (2) • FSHS 865 - Human Sexuality Credits: (3) 	<ul style="list-style-type: none"> • ENGL 825 – Seminar in Literature Credits: (3) (<u>Golden Age of Children’s Literature</u>) • ENGL 830 - Seminar in Cultural Studies Credits: (3) (<u>American Feminisms, US Latino Studies, Victorian Women Writers, or Literature of Mad Men</u>) • ENGL 840 – Seminar in Composition and Rhetoric Credits: (3) (<u>Maverick Rhetorics</u>) • FSHS 865 - Human Sexuality Credits: (3) • HIST 984 - Topics in American History Credits: (1-3) (<u>Gender in American History</u>) • MC 612 - Gender Issues and the Media Credits: (3) • MFT 869 - Systematic Treatment of Domestic Violence and Substance Abuse Credits: (2) • KIN 796 - Topics in Exercise Physiology Credits: (3) • POLSC 606 - Gender and Politics Credits: (3) • POLSC 799 - Pro-Seminar in Political Science Credits: (3) (<u>Women and Law</u>) • SOCIO 633 - Gender, Power, and Development Credits: (3) • SOCIO 635 - Sociology of Human Trafficking Credits: (3) • SOCIO 665 - Women and Crime Credits: (3) • SOCIO 670 - Diversity and Social Interaction in the Workplace Credits: (3) • SOCIO 833 - Gender Differentiation and Inequality Credits: (3) • SOCIO 933 - Gender & Society Credits: (3) • THTRE 782 - Women in Theatre Credits: (3)
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RATIONALE: These are updates to our curriculum made by vote of departmental faculty between August 2012 and March 2015. Apparently these changes were never submitted. The order of the courses as listed have been made so that they are all alphabetical, in addition to adding new courses.

IMPACT: The department heads of Communications, Educational Leadership, Sociology, Anthropology, and Social Work, and English were contacted for support on August 5th 2015. Support from the chair of Educational Leadership has been communicated via email. As I receive responses from others, I will forward them on.

EFFECTIVE DATE: Spring 2016

Non-Expedited Curriculum Changes

Department of Interior Architecture & Product Design (Master of Interior Architecture & Product Design, Non-Baccalaureate Track)

Effective: Spring 2016

Impact on Other Units: None

Rationale: This curriculum change allows the digital applications courses to be broken down into 2 modules. Content of each module is strongly related to other courses students are required to take within the same semester.

FROM: (Current list of courses for the curriculum, curriculum description, and admission criteria.)			TO: (Current list of courses for the curriculum, curriculum description, and admission criteria.)		
FIRST SEMESTER			FIRST SEMESTER		
COMM 105	Public Speaking 1A	2	COMM 105	Public Speaking 1A	2
ENVD 201	Environmental Design Studio I	4	ENVD 201	Environmental Design Studio I	4
ENVD 203	Survey of Design Professions	1	ENVD 203	Survey of Design Professions	1
ENVD 250	History of the Designed Environ I	3	ENVD 250	History of the Designed Environ I	3
MATH 100	College Algebra	3	MATH 100	College Algebra	3
	*General Elective	3		*General Elective	3
		16			16
SECOND SEMESTER			SECOND SEMESTER		
ENGL 100	Expository Writing I	3	ENGL 100	Expository Writing I	3
ENVD 202	Environmental Design Studio II	4	ENVD 202	Environmental Design Studio II	4
ENVD 251	History of the Designed Environ II	3	ENVD 251	History of the Designed Environ II	3
PHYS 115	Descriptive Physics	3	PHYS 115	Descriptive Physics	3
		15			15
THIRD SEMESTER			THIRD SEMESTER		
IAPD 307	IAPD Design Studio I	5	IAPD 307	IAPD Design Studio I	5
IAPD 248	Fundamentals of Arch Technology	3	IAPD 248	Fundamentals of Arch Technology	3
IAPD 430	Visual Communication	2	IAPD 430	Visual Communication	2
ARCH 350	History of the Designed Environ III	3	ARCH 350	History of the Designed Environ III	3
ENGL 200	Expository Writing II	3	ENGL 200	Expository Writing II	3
		16			16
FOURTH SEMESTER			FOURTH SEMESTER		
IAPD 320	IAPD Design Studio II	5	IAPD 320	IAPD Design Studio II	5
IAPD 456	Theory of Product Design	2	IAPD 456	Theory of Product Design	2
ARCH 347	Structural Systems in Architecture I	4	IAPD 210	Introduction to Digital Applications	1
ARCH 433	Building Construction Syst in Arch I	3	ARCH 347	Structural Systems in Architecture I	4
	*General Elective	3	ARCH 433	Building Construction Syst in Arch I	3
		17		*General Elective	18
FIFTH SEMESTER			FIFTH SEMESTER		
IAPD 409	Materials and Finishes	3	IAPD 409	Materials and Finishes	3
IAPD 410	Interior Arch Digital Applications	3	IAPD 310	Digital Applications	2
ARCH 413	Environmental Systems in Arch I	4	ARCH 413	Environmental Systems in Arch I	4
IAPD 435	IAPD Design Studio III	5	IAPD 435	IAPD Design Studio III	5
ARCH 448	Structural Systems in Architecture II	4	ARCH 448	Structural Systems in Architecture II	4
		19			18
SIX SEMESTER			SIX SEMESTER		
IAPD 407	Design Workshop I	3	IAPD 407	Design Workshop I	3
IAPD 412	Design Workshop I Studio	1	IAPD 412	Design Workshop I Studio	1
IAPD 440	IAPD Design Studio IV	5	IAPD 440	IAPD Design Studio IV	5
ARCH 514	Environmental Systems in Arch II	3	ARCH 514	Environmental Systems in Arch II	3
IAPD 625	Lighting in IAPD	3	IAPD 625	Lighting in IAPD	3
IAPD 628	Building Construction Systems IA	3	IAPD 628	Building Construction Systems IA	3
		18			18
<u>SUMMER Options</u>			<u>SUMMER Options</u>		
IAPD 664	Interior Arch Summer Internship	6	IAPD 664	Interior Arch Summer Internship	6

IAPD 665	Interior Architecture Summer Internship Report	1	IAPD 665	Interior Architecture Summer Internship Report	1
or	Study Abroad Experience	7	or	Study Abroad	7
or	**Focus Courses	7	or	**Focus Courses	7
		7			7
SEVENTH SEMESTER			SEVENTH SEMESTER		
IAPD 801	IAPD Design Studio 5	5	IAPD 801	IAPD Design Studio 5	5
IAPD 802	Design Workshop II	3	IAPD 802	Design Workshop II	3
IAPD 803	Design Workshop II	1	IAPD 803	Design Workshop II	1
IAPD 811	Design Research	2	IAPD 811	Design Research	2
IAPD 753	Pro Prac: Professional Responsibility	1	IAPD 753	Pro Prac: Professional Responsibility	1
IAPD 754	Pro Prac: Office Practices	1	IAPD 754	Pro Prac: Office Practices	1
IAPD 755	Pro Prac: Topics	1	IAPD 755	Pro Prac: Topics	1
IAPD 416	History of Furniture	3	IAPD 416	History of Furniture	3
		17			17
EIGHTH SEMESTER			EIGHTH SEMESTER		
IAPD 606	IAPD Design Studio IV ***Electives	5 9	IAPD 606	IAPD Design Studio IV ***Electives	5 9
or			or		
IAPD 644	IAPD Internship	9	IAPD 644	IAPD Internship	9
IAPD 645	IAPD Internship Report	5	IAPD 645	IAPD Internship Report	5
		14			14
NINTH SEMESTER			NINTH SEMESTER		
IAPD 810	IAPD Capstone Studio	5	IAPD 810	IAPD Capstone Studio	5
IAPD 813	Furniture Design Workshop Studio	1	IAPD 813	Furniture Design Workshop Studio	1
IAPD 814	Furniture Design Workshop	3	IAPD 814	Furniture Design Workshop	3
IAPD 815	Advanced Studio Programming	2	IAPD 815	Advanced Studio Programming	2
	*General Elective	4		*General Elective	4
		15			15
TENTH SEMESTER			TENTH SEMESTER		
IAPD 822	Adv Product Design Studio	6	IAPD 822	Adv Product Design Studio	6
or IAPD 823	Adv IA Design Studio	6	or IAPD 823	Adv IA Design Studio	6
or IAPD 824	Adv Furn Dsgn Studio & Workshop	6	or IAPD 824	Adv Furn Dsgn Studio & Workshop	6
IAPD 891	Contemporary Design Seminar	3	IAPD 891	Contemporary Design Seminar	3
	*General Elective	6		*General Elective	6
		15			15
Undergraduate Hours		138	Undergraduate Hours		138
Graduate Hours		31	Graduate Hours		31
Total (MIAPD) Degree Requirement		169	Total (MIAPD) Degree Requirement		169
Notes *A minimum of sixteen (16) general elective credits must be taken. General electives may be taken in pursuit of a minor. They may be taken any time prior to or during the Interior Architecture and Product Design program and may include KSU approved AP, IB, CLEP and transfer credit. Students may not count more than three (3) total hours of recreation credits toward graduation. **Focus Courses include IAPD 406 and IAPD 830 Problems in IAPD, as well as other department head approved courses, including those associated with a minor program. ***Electives taken in the eighth semester should support student interest including professional electives and study abroad courses. These may also be associated with a minor program. The K-State 8 General Education areas are covered by courses required in the Interior Architecture and Product Design curriculum. Information about the K-State 8 is available on the web and in the university catalog. Courses listed in bold type represent those hours required in the graduate program. Total credit hours required for graduate school program of study is 31.			Notes *A minimum of sixteen (16) general elective credits must be taken. General electives may be taken in pursuit of a minor. They may be taken any time prior to or during the Interior Architecture and Product Design program and may include KSU approved AP, IB, CLEP and transfer credit. Students may not count more than three (3) total hours of recreation credits toward graduation. **Focus Courses include IAPD 406 and IAPD 830 Problems in IAPD, as well as other department head approved courses, including those associated with a minor program. ***Electives taken in the eighth semester should support student interest including professional electives and study abroad courses. These may also be associated with a minor program. The K-State 8 General Education areas are covered by courses required in the Interior Architecture and Product Design curriculum. Information about the K-State 8 is available on the web and in the university catalog. Courses listed in bold type represent those hours required in the graduate program. Total credit hours required for graduate school program of study is 31.		

Department of Interior Architecture & Product Design
(Master of Interior Architecture & Product Design, Post-Baccalaureate Track)

Effective: Spring 2016

Impact on Other Units: None

Rationale: This curriculum change allows the digital applications courses to be broken down into 2 modules. Content of each module is strongly related to other courses students are required to take within the same semester.

FROM: (Current list of courses for the curriculum, curriculum description, and admission criteria.)			TO: (Current list of courses for the curriculum, curriculum description, and admission criteria.)		
SUMMER STUDY			SUMMER STUDY		
ENVD 201	Environmental Design Studio I	4	ENVD 201	Environmental Design Studio I	4
ENVD 202	Environmental Design Studio II	4	ENVD 202	Environmental Design Studio II	4
ENVD 203	Survey of the Design Professions	1	ENVD 203	Survey of the Design Professions	1
		9			9
FIRST SEMESTER			FIRST SEMESTER		
IAPD 248	Fundamentals of Arch Technology	3	IAPD 248	Fundamentals of Arch Technology	3
IAPD 307	IAPD Design Studio I	5	IAPD 307	IAPD Design Studio I	5
IAPD 416	History of Furniture	3	IAPD 416	History of Furniture	3
IAPD 430	Visual Communication	2	IAPD 430	Visual Communication	2
ARCH 350	History of the Designed Environ III	3	ARCH 350	History of the Designed Environ III	3
		16			16
SECOND SEMESTER			SECOND SEMESTER		
IAPD 320	IAPD Design Studio II	5	IAPD 320	IAPD Design Studio II	5
IAPD 407	Design Workshop I	3	IAPD 210	Introduction to Digital Applications	1
IAPD 412	Design Workshop I Studio	1	IAPD 407	Design Workshop I	3
IAPD 456	Theory of Product Design	2	IAPD 412	Design Workshop I Studio	1
ARCH 347	Structural Systems in Architecture I	4	IAPD 456	Theory of Product Design	2
ARCH 433	Building Construction Syst in Arch I	3	ARCH 347	Structural Systems in Architecture I	4
		18	ARCH 433	Building Construction Syst in Arch I	3
					19
THIRD SEMESTER			THIRD SEMESTER		
IAPD 409	Materials and Finishes	3	IAPD 409	Materials and Finishes	3
IAPD 410	Interior Arch Digital Applications	3	IAPD 310	Digital Applications	2
ARCH 413	Environmental Systems in Arch I	4	ARCH 413	Environmental Systems in Arch I	4
IAPD 435	IAPD Design Studio III	5	IAPD 435	IAPD Design Studio III	5
ARCH 448	Structural Systems in Architecture II	4	ARCH 448	Structural Systems in Architecture II	4
		19			18
FOURTH SEMESTER			FOURTH SEMESTER		
IAPD 440	IAPD Design Studio IV	5	IAPD 440	IAPD Design Studio IV	5
IAPD 625	Lighting in IAPD	3	IAPD 625	Lighting in IAPD	3
IAPD 628	Building Construction Systems IA	3	IAPD 628	Building Construction Systems IA	3
ARCH 514	Environmental Systems in Arch II	3	ARCH 514	Environmental Systems in Arch II	3
		14			14
SUMMER STUDY			SUMMER STUDY		
IAPD 801	IAPD Design Studio 5	5	IAPD 801	IAPD Design Studio 5	5
IAPD 802	Design Workshop II	3	IAPD 802	Design Workshop II	3
IAPD 803	Design Workshop II Studio	1	IAPD 803	Design Workshop II Studio	1
		9			9
FIFTH SEMESTER			FIFTH SEMESTER		
IAPD 810	IAPD Capstone Design Studio	5	IAPD 810	IAPD Capstone Design Studio	5
IAPD 811	Design Research	2	IAPD 811	Design Research	2
IAPD 813	Furniture Design Workshop Studio	1	IAPD 813	Furniture Design Workshop Studio	1
IAPD 814	Furniture Design Workshop	3	IAPD 814	Furniture Design Workshop	3
IAPD 815	Advanced Studio Programming	2	IAPD 815	Advanced Studio Programming	2

IAPD 753	Pro Prac: Professional Responsibility	1	IAPD 753	Pro Prac: Professional Responsibility	1
IAPD 754	Pro Prac: Office Practices	1	IAPD 754	Pro Prac: Office Practices	1
IAPD 755	Pro Prac: Topics	1	IAPD 755	Pro Prac: Topics	1
		16			16
SIXTH SEMESTER			SIXTH SEMESTER		
IAPD 822	Advanced Product Design Studio	6	IAPD 822	Advanced Product Design Studio	6
or IAPD 823	Advanced IA Design Studio	6	or IAPD 823	Advanced IA Design Studio	6
or IAPD 824	Advanced Furn Studio & Workshop	6	or IAPD 824	Advanced Furn Studio & Workshop	6
IAPD 891	Contemporary Design Seminar	3	IAPD 891	Contemporary Design Seminar	3
		9			9
Undergraduate Hours		79	Undergraduate Hours		79
Graduate Hours		31	Graduate Hours		31
Total (MIAPD) Degree Requirement		110	Total (MIAPD) Degree Requirement		110
Notes Courses listed in bold type represent those hours within the graduate program. A comprehensive three-year-plus curriculum leading to a CIDA- and NASAD-accredited Master of Interior Architecture & Product Design degree program for students with a bachelor's degree in another field. The following courses (or their equivalents) must be completed prior to entry in the post-baccalaureate track: MATH 100 and PHYS 113 or PHYS 115.			Notes Courses listed in bold type represent those hours within the graduate program. A comprehensive three-year-plus curriculum leading to a CIDA- and NASAD-accredited Master of Interior Architecture & Product Design degree program for students with a bachelor's degree in another field. The following courses (or their equivalents) must be completed prior to entry in the post-baccalaureate track: MATH 100 and PHYS 113 or PHYS 115.		