A MEMORANDUM

DATE: April 18, 2016

TO: Academic Deans Council

FROM: Dr. Kirk Swortzel
UCCC Chair

RE: Change Notice 6

Listed below are curriculum change proposals which have been recommended by the University Committee Courses and Curricula. Under current procedure, members of the Academic Deans Council may question the approval of these proposals at any time prior to 5:00 p.m. on April 29, 2016 by contacting Dr. Kirk Swortzel (5-7837) or the office of the Vice President for Academic Affairs (5-3742). If no questions have been raised, the proposals will be considered approved automatically.

1. Course Proposals

AGRICULTURE AND LIFE SCIENCES

Modification AIS 4503	**Approved**	**FROM: AIS 4503 International Agricultural Education.** (3). Three hours lecture. Examination of formal and non-formal agricultural education systems and related situations and processes that influence agricultural development in developing countries. **TO: AIS 4503 International Agricultural Education.** (3). Three hours lecture. Examination of formal and non-formal agricultural education and related processes that influence global agricultural development including impacts of culture and changing demographics. Analysis of current global agricultural issues, roles of international organizations, and effectiveness of technology transfer. Effective: Spring 2016
Modification AIS 6503	**Approved**	**FROM: AIS 6503 International Agricultural Education.** (3). Three hours lecture. Examination of formal and non-formal agricultural education systems and related situations and processes that influence agricultural development in developing countries. **TO: AIS 6503 International Agricultural Education.** (3). Three hours lecture. Examination of formal and non-formal agricultural education and related processes that influence global agricultural development including impacts of culture and changing demographics. Analysis of current global agricultural issues, roles of international organizations, and effectiveness of technology transfer. Effective: Spring 2016

Technical Change	AIS 8100	**Approved**	**AIS 8100 Creative Component Project in AEE.** (Allows the maximum credit hours of AIS 8100 to 99). Effective: Spring 2016
Modification +Maymester	HS 4832	**Tabled**	**HS 4832 Child Life Clinical.**
Modification	PO 4333 to PO 4334	**Approved**	**FROM: PO 4333 Broiler Production.** (3). Three hours lecture. Practical management problems encountered in the production of broilers including breeding, housing, brooding, diseases, and feeding; field trips to intensified broiler areas. **TO: PO 4334 Broiler Production.** (4), Three hours lecture. Two hours laboratory. Practical management problems encountered in the production of broilers including breeding, housing, brooding, diseases, and feeding; field trips to intensified broiler areas. Method of Instruction: B Method of Delivery: F Effective Date: Spring 2016
Modification	PO 6333 to PO 6334	**Approved**	**PO 6333 Broiler Production.** (3). Three hours lecture. Practical management problems encountered in the production of broilers including breeding, housing, brooding, diseases, and feeding; field trips to intensified broiler areas. **TO: PO 6334 Broiler Production.** (4), Three hours lecture. Two hours laboratory. Practical management problems encountered in the production of broilers including breeding, housing, brooding, diseases, and feeding; field trips to intensified broiler areas. Method of Instruction: B Method of Delivery: F Effective Date: Spring 2016

ARTS AND SCIENCES

Addition AN 2103	**Approved**	**AN 2103 Nutritional Anthropology.** (3). Three hours lecture. Discussion of human diet and nutrition from a holistic, cross-cultural perspective. Topics covered include evolution of human diet, nutrition, and subsistence transitions; health, growth, and disease; food insecurity; and food in relation to economy, identity, religion, and senses. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 450201 30 Char: Nutritional Anthropology Effective: Spring 2016
+Distance FLG 1113 +Gen. Ed.	**Approved**	**FLG 1113 German I** Approval to Offer Online Campus 5 and General Education for German I. Method of Instruction: A & B Method of Delivery: F & O General Education Category: Humanities Effective: Spring 2016
Addition GR 4883/6883	**Approved**	**GR 4883/6883 Radar Meteorology.** (3). (Prerequisite: GR 4733.) Two hours lecture. Two hours lab. Study of the history, the operation, and the application of radar in weather analysis. Theory and application of radar measurements in the determination of meteorological threats. Method of Instruction: B Method of Delivery: F Campus: 1 CIP: 400401 30 Char: Radar Meteorology Effective: Spring 2016
+Distance HI 4133/6133	**Approved**	**HI 4133/6133 Approve to Offer Campus 5 for Civil War and Reconstruction 1850 to 1877.** Method of Instruction: C Method of Delivery: I & F Campuses: 1, 2, & 5 Effective Date: Spring 2016

BUSINESS

Technical Change	BL 3223	**Approved**	**FROM: BL 3223 The Law of Commercial Transactions.** (3). (Prerequisite: Junior Standing). Three hours lecture. Commercial instruments in the economic process. Use of commercial and investment paper; documents of title, security instruments, notes, drafts, checks; integrated treatment of uniform statutes. **TO: BL 3223 The Law of Commercial Transactions.** (3). (Prerequisite: BL 2413 and Junior Standing). Three hours lecture. Commercial instruments in the economic process. Use of commercial and investment paper; documents of title, security instruments, notes, drafts, checks; integrated treatment of uniform statutes. Effective: Spring 2016
Technical Change	BL 4000	**Approved**	**FROM: BL 4000 Directed Individual Study in Business Law.** (1-6). (Prerequisite: Junior Standing). Hours and credits to be arranged. **TO: BL 4000 Directed Individual Study in Business Law.** (1-6). (Prerequisite: BL 2413 and Junior Standing). Hours and credits to be arranged. Effective: Spring 2016
Technical Change	BL 4263 /6263	**Approved**	**FROM: BL 4263/6263 Environmental Law.** (3). Three hours lecture. An introduction to how environmental law interfaces with the legal system. Overview of the major statutes, cases, regulations pertaining to the environment. **TO: BL 4263/6263 Environmental Law.** (3). (Prerequisite: BL 2413). Three hours lecture. An introduction to how environmental law interfaces with the legal system. Overview of the major statutes, cases, and regulations pertaining to the environment. Effective: Spring 2016

Technical Change BL 4273 /6273	**Approved**	**FROM: BL 4273/6273 International Business Law.** (3). Three hours lecture. An international commerical [sic] transaction course emphasizing trade, licensing and investments (contracts, financing, instruments, dispute resolution). **TO: BL 4273/6273 International Business Law.** (3). (Prerequisite: BL 2413). Three hours lecture. An international commercial transaction course emphasizing trade, licensing and investments (contracts, financing, instruments, dispute resolution). Effective: Spring 2016
Technical Change MGT 3323	**Approved**	**FROM: MGT 3323 Entrepreneurship.** (3). (Prerequisite: EC 2123). An introduction to the processes involved in owning and managing a business. Includes the entrepreneurial activities normally associated with starting and operating a business. **TO: MGT 3323 Entrepreneurship.** (3). (Prerequisite: Junior standing or consent of instructor). Three hours lecture. An introduction to the processes involved in owning and managing a business. Includes the entrepreneurial activities normally associated with starting and operating a business. Effective: Spring 2016

Technical Change MGT 3333	**Approved**	**FROM: MGT 3333 Field Studies in Entrepreneurship.** (3). (Prerequisite: MGT 3323 or consent of instructor). Three hours lecture. Students, working in groups under the direction of their professor, will assess the problems of an embryonic or operating entrepreneurial organization and recommend appropriate solutions. **TO: MGT 3333 Field Studies in Entrepreneurship.** (3). (Prerequisite: Junior standing or consent of instructor). Three hours lecture. Students, working in groups under the direction of their professor, will assess the problems of an embryonic or operating organization and recommend appropriate solutions. Effective: Spring 2016
Technical Change MGT 3513	**Approved**	**FROM: MGT 3513 Introduction to Human Resource Management.** (3). Three hours lecture. Development of efficient programs for managing human resources. Emphasizes equal employment opportunity, performance evaluation, selection, placement, education, training, safety and health. **TO: MGT 3513 Introduction to Human Resource Management.** (3). (Prerequisite: Junior standing or consent of instructor). Three hours lecture. Development of efficient programs for managing human resources. Emphasizes equal employment opportunity, performance evaluation, selection, placement, education, training, safety and health. Effective: Spring 2016

Technical Change MGT 8123	**Approved**	**FROM: MGT 8123 Strategic Business Consulting.** (3). (Prerequisite: BQA 8233, MKT 8153, EC 8103, ACC 8112, FIN 8113, MGT 8112). Three hours lecture. A study of strategic management covering environmental analysis, competition between firms, competitive advantage, and strategy implementation culminating in a consulting project with participating organization. **TO: MGT 8123 Strategic Business Consulting.** (3). (Prerequisite: BQA 8233, MKT 8153, EC 8103, ACC 8213, FIN 8113, MGT 8113). Three hours lecture. A study of strategic management covering environmental analysis, competition between firms, competitive advantage, and strategy implementation culminating in a consulting project with participating organization. Effective: Spring 2016
Technical Change MGT 9813	**Approved**	**MGT 9813 Seminar in Organizational Behavior.** 30 Char: Seminar in OB Effective: Spring 2016
Technical Change MGT 9913	**Approved**	**FROM: MGT 9913 Strategy Formulation.** (3). (Prerequisite: Approval of instructor). Doctoral seminar covering the strategic management literature in the area of strategy formulation. field [sic] and how to conduct strategy research [sic] **TO: MGT 9913 Seminar in Strategy Formulation.** (3). (Prerequisite: Approval of Instructor). Doctoral seminar covering the strategic management literature pertaining to strategy formulation in new, small, family, and public firms. Effective: Spring 2016

Technical Change MGT 9933	**Approved**	**FROM: MGT 9933 Seminar in Strategy Implementation.** (3). (Prerequisite: Approval of Instructor). Doctoral Seminar covering the strategic management literature in the area of strategy implementation as environment, structure and performance. **TO: MGT 9933 Seminar in Strategy Implementation.** (3). (Prerequisite: Approval of instructor). Doctoral seminar covering the strategic management literature pertaining to strategy implementation in new, small, family, and public firms. Effective: Spring 2016

EDUCATION

Modification EPY 8493	**Passed Contingent**	**EPY 8493 Child Behavior and Personality Assessment.**
Modification EPY 8763	**Approved**	**FROM: EPY 8763 Advanced Child Behavior & Cognitive-Behavioral Intervention.** (3). (Prerequisite: EPY 8703). Two hours lecture. Two hours practicum. Study of the theory and practice of empirically based interventions. Selection and utilization of intervention strategies in simulated and actual situations. Development of intervention portfolios. **TO: EPY 8763 Advanced Applied Behavior Analysis.** (3). (Prerequisite: EPY 4113/6113, EPY 8253). Three hours lecture. The focus will be on the identification, analysis, treatment, and evaluation of behavioral problems presented by children and youth. Emphasis is on these topics as they are applied in a non-school setting. Method of Instruction: C Method of Delivery: F Campus: 1 30 Char: Advanced ABA Effective: Spring 2016

Modification	PE 4853	**Approved**	**FROM: PE 4853 Motor Learning and Skill Analysis.** (3). (Prerequisite: PE 3223 and Full admission to Teacher Education). Three hours lecture. Designed to provide studnets [sic] with an understanding of how movement is produced and controlled and the principles that underlie the learning of motor skills. **TO: PE 4853 Motor Learning and Skill Analysis.** (3). (Prerequisite: PE 3223). Three hours lecture. Designed to provide students with an understanding of how movement is produced and controlled and the principles that underlie the learning of motor skills. Effective: Spring 2016

ENGINEERING

Technical Change	CHE 2114	**Approved**	**FROM: CHE 2114 Mass and Energy Balances.** (4). (Prerequisites: CH 1223 and credit or registration in MA 1723). Three hours lecture. Two hours laboratory. Application of systems of units, material balances, heats of reaction, energy balances, and chemical equilibria to typical industrial problems. **TO: CHE 2114 Mass and Energy Balances.** (3). (Prerequisites: C or better in CH 1223 and credit or registration in MA 1723). Three hours lecture. Two hours laboratory. Application of systems of units, material balances, heats of reaction, energy balances, and chemical equilibria to typical industrial problems. Effective: Spring 2016

Technical Change	CHE 2213	**Approved**	**FROM: CHE 2213 Chemical Engineering Analysis.** (3). (Prerequisite: Credit or registration in MA 1713). Three hours lecture. Introduction to the analysis of chemical engineering processes using numerical and statistical techniques with application of modern computational tools available to engineers **TO: CHE 2213 Chemical Engineering Analysis.** (3). (Prerequisite: C or better in CH 1213; Credit or registration in MA 1713). Three hours lecture. Introduction to the analysis of chemical & petroleum engineering processes using numerical and statistical techniques with application of modern computational tools available to engineers. Effective: Spring 2016
Technical Change	CHE 3113	**Approved**	**FROM: CHE 3113 Chemical Engineering Thermodynamics I.** (3). (Prerequisites: CH 1223, and PH 2213, Co-requisites: CHE 2114 and MA 2733). Three hours lecture. The thermodynamic properties of substances, energy relationships, applications of the first and second law of thermodynamics, flow processes, power cycles, re **TO: CHE 3113 Chemical Engineering Thermodynamics I.** (3). (Prerequisites: C or better in CH 1223 and PH 2213. Co-requisites: CHE 2114 and MA 2733). Three hours lecture. Thermodynamic properties, energy relationships, applications of the first and second law of thermodynamics, flow processes, power cycles, refrigeration and liquefaction. Effective: Spring 2016

Technical Change	CHE 3123	**Approved**	**FROM: CHE 3123 Chemical Engineering Thermodynamics II.** (3). (Prerequisites: MA 2743 and C or better in CHE 2114 and CHE 3113). Three hours lecture. Treatment of non-ideal effects. High pressure behavior of pure substances. Thermodynamics of ideal and non-ideal mixtures, phase equilibria, and chemical equilibria. **TO: CHE 3123 Chemical Engineering Thermodynamics II.** (3) (Prerequisites: C or better in MA 2743, CHE 2114 and CHE 3113). Three hours lecture. Treatment of non-ideal effects. High pressure behavior of pure substances. Thermodynamics of ideal and non-ideal mixtures, phase equilibria, and chemical equilibria. Effective: Spring 2016
Technical Change	CHE 3203	**Approved**	**FROM: CHE 3203 Fluid Flow Operations.** (3). (Prerequisites: PH 2213 and credit and registration in CHE 2114 and MA 1723). Three hours lecture. Fundamentals of fluid flow behavior in chemical processes emphasized by extensive calculations. Design of fluid flow systems. **TO: CHE 3203 Fluid Flow Operations.** (3). (Prerequisites: C or better in PH 2213 and credit and registration in CHE 2114 and MA 1723). Three hours lecture. Fundamentals of fluid flow behavior in chemical processes emphasized by extensive calculations. Design of fluid flow systems. Effective: Spring 2016

Technical Change	CHE 3213	**Approved**	**FROM: CHE 3213 Heat Transfer Operations.** (3). (Prerequisite: MA 2743; Grade of C or better in either CHE 3203 or EM 3313 and credit or registration in CHE 3313 and MA 3253). Three hours lecture. Fundamentals of heat transfer in chemical engineering processes and process equipment. Special emphasis given to the economics of heat exchanger design and heat recovery. **TO: CHE 3213 Heat Transfer Operations.** (3). (Prerequisites: C or better in MA 2743 and in either CHE 3203 or EM 3313 and credit or registration in CHE 3113 and MA 3253). Three hours lecture. Fundamentals of heat transfer in chemical engineering processes and process equipment. Effective: Spring 2016
Technical Change	CHE 3222	**Approved**	**FROM: CHE 3222 Chemical Engineering Laboratory I.** (3). (Prerequisites: Grade of C or better in CHE 3203 or EM 3313 and CHE 3213). Four hours laboratory. Experiments in chemical engineering unit operations related to fluid flow and heat transfer. Experimental design/statistical treatment of data. Health/safety concerns in the laboratory. **TO: CHE 3222 Chemical Engineering Laboratory I.** (2). (Prerequisites: Grade of C or better in CHE 3203 or EM 3313; Credit or registration in CHE 3213). Four hours laboratory. Experiments in chemical engineering operations related to fluid flow and heat transfer. Experimental design, statistics, health & safety concerns. Effective: Spring 2016

Technical Change	CHE 3232	**Approved**	**FROM: CHE 3232 Chemical Engineering Laboratory II.** (2). (Prerequisites: C or better in CHE 3222, C or better in CHE 3213, C or better in CHE 3223). Four hours laboratory. Experiments in chemical engineering unit operations related to heat transfer, mass transfer, kinetics and process control. Statistical design of experiments, instrumentation and data acquisition. **TO: CHE 3232 Chemical Engineering Laboratory II.** (2). (Prerequisites: C or better in CHE 3203, CHE 3213, and CHE 3223). Four hours laboratory. Experiments in chemical engineering unit operations related to heat transfer, mass transfer, kinetics and process control. Statistical design of experiments, instrumentation and data acquisition. Effective: Spring 2016
Technical Change	CHE 3413	**Approved**	**FROM: CHE 3413 Engineering Materials.** (3). (Prerequisites: CH 1223 and PH 2213). Three hours lecture. The physical, chemical, and mechanical properties of engineering materials. The influence of these properties on the behavior of materials that have been placed in service. **TO: CHE 3413 Engineering Materials.** (3). (Prerequisites: C or better in CH 1223 and PH 2213). Three hours lecture. The physical, chemical, and mechanical properties of engineering materials. The influence of these properties on the behavior of materials that have been placed in service. Effective: Spring 2016

Technical Change	CHE 4143	**Approved**	**FROM: CHE 4143 Advanced Polymeric and Multicomponent.** (3). (Prerequisite: Junior standing or great [sic]; CHE 3413, ME 3403, EM 4133 or equivalent materials course.) Three hours lecture. Nomenclature, synthesis, characterization, processing, and properties of state-of-the-art polymeric and multicomponent materials. **TO: CHE 4143 Advanced Polymeric and Multicomponent.** (3). (Prerequisite: Junior standing; CHE 3413, ME 3403, EM 4133 or equivalent materials course.) Three hours lecture. Nomenclature, synthesis, characterization, processing, and properties of state-of-art polymeric and multicomponent materials. Effective: Spring 2016
Technical Change	CHE 4153	**Approved**	**FROM: CHE 4153 Introduction to Particle and Crystallization Technology.** (3). (Prerequisite: Junior standing or greater, CHE 2114, MA 1723, PH 2213, and/or consent of instructor). Three hours lecture. Fundamentals particle and crystallization technology including theory and practical applications that emphasize unit operations and their interaction with solids processing. **TO: CHE 4153 Introduction to Particle and Crystallization Technology.** (3). (Prerequisite: Junior standing, C or better in CHE 2114, MA 1723, PH 2213, and/or consent of instructor). Three hours lecture. Fundamentals of particle and crystallization technology including theory and practical applications that emphasize unit operations and their interaction with solids. Effective: Spring 2016

Technical Change	CHE 4163	**Approved**	**FROM: CHE 4163 Nanotechology in Chemical Applications.** (3). (Prerequisite: Junior standing or greater, CH 1223 or equivalent, PH 2213, MA 1723, and/or consent of instructor). Three hours lecture. Fundamental concepts, applications, and preparation and synthesis of colloidal systems. Includes characterization methods and applications in nanotechnology. **TO: CHE 4163 Nanotechology in Chemical Applications.** (3). (Prerequisite: Junior standing, C or better in CH 1223, PH 2213, MA 1723, and/or consent of instructor). Three hours lecture. Fundamental concepts, applications, and preparation and synthesis of colloidal systems. Includes characterization methods and applications in nanotechnology. Effective: Spring 2016
Technical Change	CHE 4423	**Approved**	**FROM: CHE 4423 Fundamentals of Industrial Corrosion.** (3). (Prerequisite: CHE 3413). Three hours lecture. Identifying and eliminating the different types of corrosion that lead to the failure of engineering structures. **TO: CHE 4423 Fundamentals of Industrial Corrosion.** (3). (Co-requisite: CHE 3413). Three hours lecture. Identifying and eliminating the different types of corrosion that lead to the failure of engineering structures. Effective: Spring 2016

Technical Change	CHE 4633	**Approved**	**FROM: CHE 4633 Chemical Process Safety.** (3). (Prerequisites: CHE 2114, CHE 3203, and MA 1723). Three hours lecture. Fundamentals of chemical process safety, including toxicology, industrial hygiene, source modeling, dispersion modeling, fires & explosion, and the design of reliefs. **TO: CHE 4633 Chemical Process Safety.** (3). (Prerequisites: C or better in CHE 2114, CHE 3203, and MA 1723). Three hours lecture. Fundamentals of chemical process safety, including toxicology, industrial hygiene, source modeling, dispersion modeling, fires & explosion and the design of reliefs. Effective: Spring 2016
Addition +Distance	IE 8763	**Approved**	**IE 8763 Stochastic Programming.** (3). Three hours lecture. An introduction to stochastic optimization, focusing on stochastic programming. Covers applications of stochastic modeling and formulation, important properties of stochastic programs, and solution methods such as decomposition, Monte Carlo methods, and approximation methods. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 30 Char: Stochastic Programming Effective: Spring 2016

2. Program Proposals by college/school:

EDUCATION

Name Change	Degree: Ph.D. Major: Elementary, Middle, and Secondary Education **to** Educational Leadership	**Approved**	Approved by Graduate Council. Forwarded to Provost and President before submission to IHL.

ENGINEERING

Modification	Degree: MS Major: Mechanical Engineering (Campus 1 & 5)	**Approved**	See proposal for list of changes. Forwarded to Graduate Council.
Addition	Degree: Ph.D. Major: Mechanical Engineering (Campus 1 & 5)	**Approved**	See proposal for list of changes. Forwarded to Graduate Council.

All of the proposals were approved with the exception of the following:
Proposals**

_____

_____

_____

Peter L. Ryan
Dr. Peter L. Ryan
Associate Vice President for Academic Affairs

May 20, 2016
Date