A MEMORANDUM

DATE: November 17, 2025

TO: Academic Deans Council

FROM: Dr. Andy Perkins
UCCC Chair

RE: Change Notice 2

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 December 1, 2025 by contacting Dr. Andy Perkins (5-0004) 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 by college/school

AGRICULTURE AND LIFE SCIENCES

Addition	ABE 4563/6563	**Approved**	**ABE 4563/6563 Robotics for Biological Systems** (Prerequisite: Junior or graduate standing or consent of instructor). Two hours lecture. Two hours lab. It aims to introduce robotics in the fields of agricultural and biomedical engineering, while also exploring the specifics of associated hardware and software components. Method of Instruction: B Method of Delivery: F Campus: 1 CIP: 140301 30 Char: Robotics for Bio Systems Effective: Spring 2026

ARTS AND SCIENCES

Deletion	AAS 8543	**Approved**	**AAS 8543 Diversity and Discrimination Law** Effective: Spring 2026
Deletion	AAS 8603	**Approved**	**AAS 8603 Racism and the Color Line** Effective: Spring 2026
Deletion	AAS 8793	**Approved**	**AAS 8793 Rae and Cultural Diversity in the Workplace** Effective: Spring 2026
Addition	CO 1573	**Approved**	**CO 1573 The Art of Not Being Naked** Three hours lecture. An overview of clothing as art, including use of design principles, cultural and historical traditions, purposes, techniques, and tools of creation. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 500701 30 Char: The Art of Not Being Naked Effective: Spring 2026
Addition	CO 3943	**Approved**	**CO 3943 Non-Linear Editing & Motion Graphics** (Prerequisite: CO 2933 or CO 2333 with a C or better). Two Hours Lecture. Two Hours Lab. Providing students with a comprehensive, hands-on introduction to non-linear video editing and motion graphics creation. Students will learn how to import, organize, and edit video and audio, apply transitions and effects, integrate titles and graphics, perform basic color correction, and export final deliverables for various platforms. Method of Instruction: B Method of Delivery: F Campus: 1 CIP: 500602 30 Char: Non-Linear Editing & Mo-GFX

		Effective: Fall 2026
Technical Change CO 4813/6813	**Approved**	**FROM: CO 4813/6813 Public Relations in Organizations** (Prerequisites: Grade of C or better in CO 3813, CO 3853, CO 3863, and CO 4803). Three hours lecture. Studies in using various communication techniques for image building and campaign development for profit and non-profit organizations. **TO: CO 4813/6813 Campaigns in Public Relations** (Prerequisites: Grade of C or better in CO 3863 and CO 4803). Three hours lecture. Studies in using various communication techniques for image building and campaign development for profit and non-profit organizations. 30 Char: PR Campaigns Effective: Spring 2026
Modification FL 4233/6233	**Approved**	**FROM: FL 4233/6233 Linguistics for World Language Teachers** (Prerequisite: FLS/FLF/FLG 2143 or consent of instructor).Three hours lecture. Introduction to several major fields of linguistics, with specific emphasis on applying linguistic analysis to the World Language classroom. **TO: FL 4233/6233 Linguistics for World Language Teachers** Three hours lecture. Introduction to several major fields of linguistics, with specific emphasis on applying linguistic analysis to the World Language classroom. Same as LIN 4233/6233. Effective: Fall 2026
Addition FL 8423	**Approved**	**FL 8423 Language Contact in the Americas** Three hours lecture. A survey of language contact in the Americas, focusing on New World varieties of Spanish, French, and German and their contact with both indigenous languages and one another. Both the linguistic and social outcomes of language contact will be considered. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 160102 30 Char: Lang Contact in the Americas Effective: Spring 2026
Technical Change FLF 3114	**Approved**	**FROM: FLF 3114 Advanced French Composition** (Prerequisite: FLF 2143, FLF 2125 or equivalent or consent of instructor). Three hours lecture and laboratory. Required of all majors. Advanced instruction in all aspects of the written language. **TO: FLF 3114 Advanced French Composition** (Prerequisite: FLF 2143 or equivalent or consent of instructor). Three hours lecture and laboratory. Required of all majors. Advanced instruction in all aspects of the written language. Effective: Fall 2026

Technical Change FLF 3124	**Approved**	**FROM: FLF 3124 Advanced French Conversation** (Prerequisite: FLF 2143, FLF 2125 or equivalent or consent of instructor). Three hours lecture and laboratory. Required of all majors. A continuation of FLF 3114. Advanced instsruction in all aspects of the spoken language. **TO: FLF 3124 Advanced French Conversation** (Prerequisite: FLF 2143 or equivalent or consent of instructor). Three hours lecture and laboratory. Required of all majors. A continuation of FLF 3114. Advanced instruction in all aspects of the spoken language. Effective: Fall 2026
Technical Change FLF 3143	**Approved**	**FROM: FLF 3143 French Civilization** (Prerequisite: FLF 2143, FLF 2125 or equivalent or consent of instructor). Three hours lecture. Illustrated survey of French cultural heritage. **TO: FLF 3143 French Civilization** (Prerequisite: FLF 2143 or equivalent or consent of instructor). Three hours lecture. Illustrated survey of French cultural heritage. Effective: Fall 2026
Technical Change FLF 3513	**Approved**	**FROM: FLF 3513 Survey of French Literature** (Prerequisite: FLF 2143 or FLF 2125 or equivalent or consent of instructor). Three hours lecture. Required by all majors. A survey of French literataure from the Middle ages to the Seventeenth - Century. **TO: FLF 3513 Survey of French Literature** (Prerequisite: FLF 2143 or equivalent or consent of instructor). Three hours lecture. Required by all majors. A survey of French literature from the Middle ages to the seventeenth-century. Effective: Fall 2026
Technical Change FLF 4073/6073	**Approved**	**FROM: FLF 4073/6073 French Drama of the 20th Century** (Prerequisite: FLF 3523 or consent of instructor). Three hours lecture. Reading of works of outstanding writers and discussion of literary currents of the century. **TO: FLF 4073/6073 French Drama of the 20th Century** (Prerequisite: FLF 2143 or consent of instructor or graduate standing). Three hours lecture. Reading of works of outstanding writers and discussion of literary currents of the century. Effective: Fall 2026
Technical Change FLF 4083/6083	**Approved**	**FROM: FLF 4083/6083 Survey of French Lyric Poetry** (Prerequisite: 3513).Three hours lecture. Reading and interpretation of masterpieces. Discussion of literary currents and personalities of the century. **TO: FLF 4083/6083 Survey of French Lyric Poetry** (Prerequisite: 3513 or graduate standing). Three hours lecture. Reading and interpretation of masterpieces.

		Discussion of literary currents and personalities of the century. Effective: Fall 2026
Technical Change FLF 4103/6103	**Approved**	**FROM: FLF 4103/6103 French Novel and Short Story of the 20th Century** (Prerequisite: FLF 3523 or consent of instructor). Three hours lecture. Reading and critical evaluation of modern French novels and short stories of various literary schools. **TO: FLF 4103/6103 French Novel and Short Story of the 20th Century** (Prerequisite: FLF 2143 or consent of instructor or graduate standing). Three hours lecture. Reading and critical evaluation of modern French novels and short stories of various literary schools. Effective: Fall 2026
Technical Change FLF 4193/6193	**Approved**	**FROM: FLF 4193/6193 18th Century French Literature** (Prerequisiste:FLF 2143 or the equivalent). Three hours lecture. An introduction to French Literature and essential literary movements from the 18th century. **TO: FLF 4193/6193 18th Century French Literature** (Prerequisite: FLF 2143 or the equivalent or graduate standing). Three hours lecture. An introduction to French Literature and essential literary movements from the 18th century. Effective: Fall 2026
Technical Change FLF 4213/6213	**Approved**	**FROM: FLF 4213/6213 History of French Grammar** (Prerequisites: FLF 3114 and 3124 or consent of instructor). A history of the French language from the Strasbourg Oaths to Montaigne. **TO: FLF 4213/6213 History of French Grammar** (Prerequisites: FLF 2143 or consent of instructor or graduate standing). A history of the French language from the Strasbourg Oaths to Montaigne. Effective: Fall 2026
Technical Change FLF 4223/6223	**Approved**	**FROM: FLF 4223/6223 French Novel Before 1945** (Prerequisite: FLF 2143 or the equivalent). Three hours lecture. A course dedicated to the major French novelists for the first half of the twentieth-century and the literary movements that they represent. **TO: FLF 4223/6223 French Novel Before 1945** (Prerequisite: FLF 2143 or the equivalent or graduate standing). Three hours lecture. A course dedicated to the major French novelists for the first half of the twentieth-century and the literary movements that they represent. Effective: Fall 2026
Technical Change FLF 4233/6233	**Approved**	**FROM: FLF 4233/6233 Modern French Poetry** (Prerequisiste:FLF2143).Three hours lecture. An introduction into modern French poetry and the literary movements that epitomize this time peroid.

		TO: FLF 4233/6233 Modern French Poetry (Prerequisite: FLF 2143 or graduate standing). Three hours lecture. An introduction into modern French poetry and the literary movements that epitomize this time period. Effective: Fall 2026
Technical Change FLF 4663/6663	**Approved**	**FROM: FLF 4663/6663 Structure & Evolution of the French Language** (Prerequisite: FLF 2143 or consent of instructor). Three hours lecture. Introduction to the linguistic analysis of the French language from historical and current perspectives, including how the linguistic concepts studied apply to the other languages students speak. (Same as LIN 4663/6663). **TO: FLF 4663/6663 Structure & Evolution of the French Language** (Prerequisite: FLF 2143 or consent of instructor or graduate standing). Three hours lecture. Introduction to the linguistic analysis of the French language from historical and current perspectives, including how the linguistic concepts studied apply to the other languages students speak. (Same as LIN 4663/6663). Effective: Fall 2026
Technical Change FLS 3113	**Approved**	**FROM: FLS 3113 Advanced Spanish Composition** (Prerequisite: FLS 2143 or FLS 2125). Three hours lecture. Required of all majors. Instruction in written composition through study of advanced grammar and writing techniques. **TO: FLS 3113 Advanced Spanish Composition** (Prerequisite: FLS 2143). Three hours lecture. Required of all majors. Instruction in written composition through study of advanced grammar and writing techniques. Effective: Fall 2026
Technical Change FLS 3233	**Approved**	**FROM: FLS 3233 Advanced Spanish Conversation** (Prerequisite:FLS 2143 or equivalent).Required of all majors. Advanced instruction in Spanish with emphasis on an oral communication skills. **TO: FLS 3233 Advanced Spanish Conversation** (Prerequisite: FLS 2143 or equivalent). Required of all majors. Advanced instruction in Spanish with emphasis on an oral communication skills. Effective: Fall 2026
Technical Change FLS 3623	**Approved**	**FROM: FLS 3623 Introduction to Spanish Literature, 19th Century – Present** An introduction to Peninsular Spanish literature from the 19th century to the present. **TO: FLS 3623 Introduction to Spanish Literature, 19th Century – Present** (Prerequisite: FLS 2143 or equivalent). An introduction to Peninsular Spanish literature from the 19th century to the present. Effective: Fall 2026

Technical Change FLS 4213/6213	**Approved**	**FROM: FLS 4213/6213 Modern Spanish Women Writers** (Prerequisite:FLS 3113, FLS 3223 or equivalent, or consent of instructor). Three hours lecture. An introduction to modern Spanish women writers. **TO: FLS 4213/6213 Modern Spanish Women Writers** (Prerequisite: FLS 3113 or equivalent or consent of instructor). Three hours lecture. An introduction to modern Spanish women writers. Effective: Fall 2026
Technical Change FLS 4263/6263	**Approved**	**FROM: FLS 4263/6263 20th Century Spanish Novel and Short Stories** (Prerequisite: FLS3513).Three hours lecture. Reading and critical evaluation of selected Spanish novels and short stories from the Generation of 1898 to the present. **TO: FLS 4263/6263 20th Century Spanish Novel and Short Stories** (Prerequisite: FLS 3113 or equivalent). Three hours lecture. Reading and critical evaluation of selected Spanish novels and short stories from the Generation of 1898 to the present. Effective: Fall 2026
Technical Change FLS 4633/6633	**Approved**	**FROM: FLS 4633/6633 Introduction to Spanish Linguistics** (Prerequisites: FLS 3233 or consent of instructor). Three hours lecture . Introduction to linguistic analyses and their application to the syntactic, morphological,semantic, phonological, historical, and sociolinguistic aspects of the Spanish language. **TO: FLS 4633/6633 Introduction to Spanish Linguistics** (Prerequisites: FLS 3113 or equivalent). Three hours lecture. Introduction to linguistic analyses and their application to the syntactic, morphological, semantic, phonological, historical, and sociolinguistic aspects of the Spanish language. Effective: Fall 2026
Technical Change FLS 4643/6643	**Approved**	**FROM: FLS 4643/6643 Spanish Phonology** (Prerequisite: FLS 3233 or consent of instructor). Three hours lecture. Introduction to the articulatory classification of Spanish sounds. Discussion of the mental organization of these sounds, and the processes which transform them during speech. **TO: FLS 4643/6643 Spanish Phonology** (Prerequisite: FLS 3113 or equivalent). Three hours lecture. Introduction to the articulatory classification of Spanish sounds. Discussion of the mental organization of these sounds, and the processes which transform them during speech. Effective: Fall 2026
Deletion GS 8963	**Approved**	**GS 8963 Exploring Issues in Gender** Effective: Spring 2026
Deletion GS 8973	**Approved**	**GS 8973 Gender and Work** Effective: Spring 2026

Addition	HI 4663	**Approved**	**HI 4663 History of Artificial Intelligence** (Prerequisite: Completion of any 1000-level history course). Three hours lecture. A historical survey of the development of artificial intelligence, from early theories of automation to recent developments in machine learning. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 540104 30 Char: History of AI Effective: Spring 2026
Deletion	HI 8543	**Approved**	**HI 8543 Diversity and Discrimination Law** Effective: Spring 2026
Deletion	HI 8603	**Approved**	**HI 8603 Racism and the Color Line** Effective: Spring 2026
Deletion	HI 8773	**Approved**	**HI 8773 Issues in Women's History** Effective: Spring 2026
Deletion	HI 8783	**Approved**	**HI 8783 Issues in African American History** Effective: Spring 2026
Deletion	HI 8793	**Approved**	**HI 8793 Race and the Cultural Diversity in the Workplace** Effective: Spring 2026
Deletion	MA 0003	**Approved**	**MA 0003 Developmental Mathematics** Effective: Spring 2026
Modification +Distance	MA 1213	**Approved**	**MA 1213 Math in Your World** Method of Delivery: F & O Campus: 1, 2, & 5 Effective: Spring 2026
Modification	MA 2113	**Approved**	**FROM: MA 2113 Introduction to Statistics** (Prerequisite:ACT Math subscore 24(or higher for some sections) or grade of C or better in MA1103 or MA1313 or MA1213). Two hours lecture. Two hourslaboratory.Introduction to descriptive statistics, random variables, probability distributions, estimation, confidence intervals, & hypothesis testing. Computer instruction for analysis.(Same as ST 2113). **TO: MA 2113 Elementary Statistics (**Prerequisite: ACT Math subscore 24, or grade of C or better in MA 1103 or MA 1313 or MA 1213). Three hours lecture. Introduction to descriptive statistics, random variables, probability distributions, estimation, confidence intervals, and hypothesis testing. Computer instruction for analysis. (Same as ST 2113). Method of Instruction: C Method of Delivery: F & O 30 Char: Elementary Stats Effective: Spring 2026
Technical Change	PH 1011	**Approved**	**FROM: PH 1011 Physical Science Laboratory I** Two hours laboratory. Experiments in mechanics,sound.

			light, electricity and magnetism. Recommended lab to accompany PH 1013. **TO: PH 1011 How Things Work Laboratory** Two hours laboratory. Experiments in mechanics, sound, light, electricity and magnetism. Recommended lab to accompany PH 1013. 30 Char: How Things Work Lab Effective: Summer 2026
Technical Change	PH 1013	**Approved**	**FROM: PH 1013 Physical Science Survey I** **TO: PH 1013 How Things Work** 30 Char: How Things Work Effective: Summer 2026
Technical Change	PH 1021	**Approved**	**FROM: PH 1021 Physical Science Laboratory 2** Two hours laboratory. Experiments in chemistry,heat, astronomy, and energy. Recommended lab to accompany PH 1023. Could also accompany PH 1063. **TO: PH 1021 The Science of Our World and Beyond Laboratory** Two hours laboratory. Experiments in chemistry, heat, astronomy, and energy. Recommended lab to accompany PH 1023. Could also accompany PH 1063. 30 Char: Sci. Our World and Beyond Lab Effective: Summer 2026
Technical Change	PH 1023	**Approved**	**FROM: PH 1023 Physical Science Survey 2** **TO: PH 1023 The Science of Our World and Beyond** 30 Char: Science Our World and Beyond Effective: Summer 2026
Technical Change	PHI 3193	**Approved**	**FROM: PHI 3193 Game Theory** Three hours lecture. An introduction to decision theory and game theory. No mathematical knowledge beyond high school algebra is assumed. Focuses on modeling strategic decision-making by rational agents with applications to practice and real-world cases. (Credit for this course may be earned only at the Meridian campus). **TO: PHI 3193 Game Theory** Three hours lecture. An introduction to decision theory and game theory. No mathematical knowledge beyond high school algebra is assumed. Focuses on modeling strategic decision-making by rational agents with applications to theoretical and real-world cases. Campus: 1, 2, & 5 Effective: Spring 2026
Technical Change	PSY 8823	**Approved**	**FROM: PSY 8823 Diversity in Applied Psychology** (Prerequisites: PSY 8533 & PSY 8513, or permission of instructor). Three hours lecture. A theoretical and skill development course for clinicians and researchers to strengthen multicultural/cross cultural/diversity awareness, knowledge, and skills in the competencies necessary for working with ethnically and culturally diverse clients and research participants.

			TO: PSY 8823 Human Differences in Applied Psychology (Prerequisites: PSY 8533 & PSY 8513, or permission of instructor). Three hours lecture. A theory-driven and practical course for clinicians, educators, and researchers with emphasis on building the awareness, knowledge, and tools needed to practice ethically and effectively with individuals from varied backgrounds. Method of Delivery: F 30 Char: Human Differences in Appl Psy Effective: Spring 2026
Modification	ST 2113	**Approved**	**FROM: ST 2113 Introduction to Statistics** (Prerequisite:ACT Math subscore 24(or higher for some sections) or grade of C or better in MA1103 or MA1313 or MA1213). Two hours lecture. Two hourslaboratory.Introduction to descriptive statistics, random variables, probability distributions, estimation, confidence intervals, & hypothesis testing. Computer instruction for analysis.(Same as MA 2113). **TO: ST 2113 Elementary Statistics (**Prerequisite: ACT Math subscore 24, or grade of C or better in MA 1103 or MA 1313 or MA 1213). Three hours lecture. Introduction to descriptive statistics, random variables, probability distributions, estimation, confidence intervals, and hypothesis testing. Computer instruction for analysis. (Same as MA 2113). Method of Instruction: C Method of Delivery: F & O 30 Char: Elementary Stats Effective: Spring 2026

BUSINESS

Technical Change	EC 4233	**Approved**	**EC 4233 Labor Economics** (Perquisites: EC 2113, EC 2123, and EC 3123). Three hours lecture. Labor Market behavior of households and firms. Emphasizes wage determination, optimal employment decision, income distributions, unionization, human capital, and discrimination. Change: EC 3123 now needs minimum grade of C Effective: Spring 2026

EDUCATION

Addition +Distance	ABA 6113	**Approved**	**ABA 6113 Principles of Applied Behavior Analysis** Three hours lecture. The study of basic concepts and principles of behavior analysis. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 422814 30 Char: Principles of ABA

		Effective: Fall 2026
Addition +Distance ABA 8393	**Approved**	**ABA 8393 Supervised Experiential Learning in ABA** Three hours lecture. Applied, supervised, behavior analytic experiences in clinical, educational, and related settings utilizing behavior analytic principles and techniques to address socially significant behaviors for a variety of individuals. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 422814 30 Char: Experiential Learning in ABA Effective: Fall 2026
Addition +Distance ABA 8493	**Approved**	**ABA 8493 Behavioral Assessment** Three hours lecture. Theory and practice of behavioral assessment will be emphasized; including identification of presenting concerns, selection of behavioral assessment techniques, implementation of various behavior analytic assessment procedures, interpretation of data, and report writing. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 422814 30 Char: Behavioral Assessment Effective: Fall 2026
Technical Change ED 8620	**Approved**	**FROM: ED 8620 Capstone Project in Education** (Prerequisites: Acceptance into a graduate degree program in Education; permission of instructor). 1-6 hours capstone project repeatable up to 6hours.Students investigate a specific problem of practice and develop a final project appropriate to the subject area and graduate-level specific to the student. (Same as HSPY 8620) **TO: ED 8620 Capstone Project in Education** (Prerequisites: permission of instructor). Students investigate a specific problem of practice and develop a final project appropriate to the subject area and graduate-level specific to the student. (Same as HSPY 8620) Repeatability: Yes, 6, 20 Effective: Summer 2026
Deletion EPY 8473	**Approved**	**EPY 8473 Elementary Assessment and Evaluation** Effective: Fall 2026
Addition +Distance INDT 4253/6253	**Approved**	**INDT 4253/6253 Advanced Lean Six Sigma Black Belt Techniques** (Prerequisite: INDT 4373 or MAS in Industrial Technology Graduate Student) Three hours lecture. An in-depth understanding of lean and statistical tools used to reduce costs and improve processes. The DMAIC methodology of process

		improvement is thoroughly analyzed along with application of Minitab software. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150702 Effective: Spring 2026
Addition +Distance INDT 4873/6873	**Approved**	**INDT 4873/6873 Manufacturing Production Control** (Prerequisite: INDT 4863/INDT 6863 and MAS in Industrial Technology Graduate Student) Three hours lecture. An overview of production systems and manufacturing operations with emphasis placed on the types of manufacturing systems and computer-integrated manufacturing. Method of Instruction: C Method of Delivery: O Campus: 5 CIP: 150613 Effective: Spring 2026
Technical Change MUA 2210	**Approved**	**MUA 2210 Applied Saxophone** Repeatability: Yes, 8, 16 Effective: Spring 2026

ENGINEERING

Technical Change CE 4983/6983	**Approved**	**FROM: CE 4983/6983 Engineering of Wood Structures** (Prerequisite: Grade of C or better in CE 3603; or consent of major advisor). Three hours lecture. Loads onstructures.Analysis and design of wood structures using the appropriate specifications. Focus on beams and columns. **TO: CE 4983/6983 Wood Structures** (Prerequisite: Grade of C or better in CE 3603). Three hours lecture. Basic wood properties, and species and grade distinctions. Analysis and design of beams and columns composed of lumber and glulam. Connection alternatives and capacities. Mass timber and other recent advancements. Method of Delivery: F & O Campus: 1 & 5 30 Char: Wood Structures Effective: Fall 2026
Technical Change CE 4993/6993	**Approved**	**FROM: CE 4993/6993 Prestressed Concrete Structures** (Prerequisite: Grade of C or better in CE 4973; or consent of major advisor). Three hours lecture. Loads onstructures. Analysis and design of prestressed concrete structures using ACI specifications. Focus on beams. **TO: CE 4993/6993 Precast and Prestress Concrete** (Prerequisite: Grade of C or better in CE 3603). Three hours lecture. Concrete constituent materials and basic

			concrete properties. Common precast and prestressed concrete applications. Analysis and design of structural members, with an emphasis on beams. Prestress losses. Beam cambers and deflections. Construction procedures. Also, piles and pipes. Method of Delivery: F & O Campus: 1 & 5 30 Char: P&P Concrete Effective: Fall 2026

PROFESSIONAL AND CONTINUING STUDIES

Technical Change	PCS 2213	**Approved**	**FROM: PCS 2213 Survey of Multinational and Cross Cultural Operations** **TO: PCS 2213 Decode the World: Global Leadership Essentials** 30 Char: Global Leadership Essentials Effective: Spring 2026
Technical Change	PCS 3213	**Approved**	**FROM: PCS 3213 Multinational and Cross Cultural Project Collaboration** **TO: PCS 3213 Global Collaborative Projects** 30 Char: Global Collaborative Project Effective: Spring 2026
Technical Change	PCS 4213	**Approved**	**FROM: PCS 4213 Project Leadership in Multinational and Cross-Cultural Teams** **TO: PCS 4213 Leading Global Teams** 30 Char: Leading Global Teams Effective: Spring 2026
Technical Change	PCS 4223	**Approved**	**FROM: PCS 4223 Virtual Collaboration and Leadership in Multinational Teams** **TO: PCS 4223 Global Digital Leadership** 30 Char: Global Digital Leadership Effective: Spring 2026

VETERINARY SCIENCE

Addition	ONEH 4023/6023	**Approved**	**ONEH 4023/6023 Disease Management** (Prerequisite: Junior, Senior, or graduate standing). Three hours lecture. This course examines the interconnected systems that influence disease emergence, transmission, and management in animals, humans, and the environment. Antimicrobial resistance, chronic and infectious diseases, host-pathogen-environment interactions, health promotion and emergency response will be discussed. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 301501 30 Char: Disease Management Effective: Fall 2026

Addition +Distance	ONEH 8033	**Approved**	**ONEH 8033 Quantitative Methods in One Health** Three hours lecture. This course introduces applied epidemiology and data science to address health challenges across species and environments. Students use real-world data to build skills in prediction, data management, GIS, network analysis, and communicating analytical results. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 301501 30 Char: Quantitative Methods in ONEH Effective: Fall 2026
Addition	ONEH 8043	**Approved**	**ONEH 8043 Systems Analysis and Transdisciplinary Methods** Three hours lecture. This course provides an integrated view of systems thinking and system behaviors in the One Health paradigm. Students will apply theoretical frameworks, systems mapping tools, and participatory methods to engage stakeholders, co-produce knowledge, and address real-world cross-sector challenges in animal, human, and environmental health. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 301501 30 Char: Transdisciplinary Systems Effective: Spring 2027
Addition +Distance	ONEH 8053	**Approved**	**ONEH 8053 One Health Leadership and Policy** Three hours lecture. This course focuses on the development of leadership and communication skills needed to navigate complex transdisciplinary challenges. Students will practice adaptive leadership, strategic planning, policy formulation, and evidence-based decision making while fostering collaboration with an array of stakeholders to successfully promote capacity building efforts. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 301501 30 Char: OH Leadership and Policy Effective: Fall 2026
Addition	ONEH 8063	**Approved**	**ONEH 8063 One Health Capstone** Three hours capstone. This capstone course serves to highlight the knowledge and skills developed in the One Health program. Students will develop a One Health portfolio and choose a project track: either an outreach/engagement activity or an analytical paper evaluating a real-world One Health scenario. Method of Instruction: E Method of Delivery: F

		Campus: 1 CIP: 301501 30 Char: One Health Capstone Effective: Spring 2027
Addition +Distance ONEH 8073	**Approved**	**ONEH 8073 One Health in Action** Three hours lecture. This course explores the real-world issues influencing the health of animals, humans and the environment through a series of case studies and activities. Students apply One Health principles to professional interests, examining ecological change, disease, food security, and health determinants across species and disciplines. Method of Instruction: C Method of Delivery: O Campus: 5 CIP: 301501 30 Char: One Health in Action Effective: Fall 2026

NURSING

Addition +Meridian +Distance NSG 8313	**Approved**	**NSG 8313 Advanced Physical Examination and Health Assessment** (Prerequisite: introductory health assessment or equivalent). Three hours lecture. Focuses on advanced theory and techniques of health of the human body across the life span, emphasizing competencies for advanced nursing practice. Method of Instruction: C Method of Delivery: F & O Campus: 2 & 5 CIP: 513818 30 Char: Adv Physical Assessment Effective: Spring 2026
Addition +Meridian +Distance NSG 8323	**Approved**	**NSG 8323 Advanced Pharmacotherapeutics** (Prerequisite: Introductory pharmacology course or equivalent). Three hours lecture. Explores advanced pharmacotherapeutics and their effects on the human body. Emphasizes principles of pharmacology, pharmacodynamics, and pharmacokinetics across broad agent categories, focusing on therapeutic applications and competencies for advanced nursing practice. Method of Instruction: C Method of Delivery: O Campus: 2 & 5 CIP: 513801 30 Char: Advanced Pharm Effective: Spring 2026
Addition +Meridian +Distance NSG 8333	**Approved**	**NSG 8333 Advanced Pathophysiology** (Prerequisite): Introductory pathophysiology course or equivalent. Three hours lecture. This course focuses on advanced understanding of pathophysiology in the human body across the lifespan using a systems based approach. The

		course provides a comprehensive understanding of pathophysiology for advanced nursing practice competencies. Method of Instruction: C Method of Delivery: O Campus: 2 & 5 CIP: 513801 30 Char: Adv Patho Effective: Spring 2026

2. **Program Proposals by college/school:**

EDUCATION

Addition	**Degree:** MAS **Major:** Industrial Technology	**Approved**	New Program Effective Fall 2026

VETERINARY MEDICINE

Addition	Graduate Certificate: One Health	**Approved**	New Program Effective Fall 2026

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

Proposals**

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_____ _____

Dr. Peter L. Ryan
Executive Vice Provost for Academic Affairs

Date

		course provides a comprehensive understanding of pathophysiology for advanced nursing practice competencies. Method of Instruction: C Method of Delivery: O Campus: 2 & 5 CIP: 513801 30 Char: Adv Patho Effective: Spring 2026

2. **Program Proposals by college/school:**

EDUCATION

Addition	**Degree:** MAS **Major:** Industrial Technology	**Approved**	New Program Effective Fall 2026

VETERINARY MEDICINE

Addition	Graduate Certificate: One Health	**Approved**	New Program Effective Fall 2026

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

Proposals**

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Peter Liam Ryan

Dr. Peter L. Ryan
Executive Vice Provost for Academic Affairs

December 1st, 2025
Date

APPROVAL FORM FOR

DEGREE PROGRAMS

MISSISSIPPI STATE UNIVERSITY

NOTE: This form is a cover sheet that must accompany the degree program change proposal. The actual proposal should be prepared in accordance with format requirements provided in the *Guide and Format for Curriculum Proposals* published by the UCCC. Both cover sheet and proposal should be submitted to UCCC Mail Stop 9702 (281 Garner Hall), Phone: 325-9410.

College: Education **Department:** ITIDCCL

Contact Person: Dr. Swapnil Patole **Mail Stop:** 9730 **E-mail:** spatole@colled.msstate.edu
Nature of Change: New program **Date Initiated:** 09/2024 **Effective Date: 08/2026 Fall 2026**
Degree to be offered at: Campus 1 Online and Campus 5

New Degree Program Name: Masters of Applied Science in Industrial Technology

Major: Industrial Technology **Concentration:** Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs

Summary of Proposed Changes:

This new interdisciplinary Master of Applied Science in Industrial Technology program is administered by the Department of Industrial Technology, Instructional Design, and Community College Leadership. It has three specializations: Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs.

In addition to developing three concentrations, the degree will require developing nine (9) courses administered by the Industrial Technology program. The courses and their descriptions are found on the following pages.

The Master's of Applied Science will also participate in the Thrive in Five initiative at Mississippi State University. Highly qualified undergraduate students will have the opportunity to take up to nine (9) hours of graduate work.

Approved: ***Date:***

10/2/2024

Department Head

09/30/24

Digitally signed by Jeanette Fontaine
Date: 2025.01.06 14:31:52 -06'00'

Chair, College or School Curriculum Committee

Kimberly R. Hall

Digitally signed by Kimberly R. Hall
Date: 2025.01.06 14:37:51 -06'00'

Dean of College or School

Digitally signed by Andy D Perkins
Date: 2025.11.17 15:29:44 -06'00'

Chair, University Committee on Courses and Curricula

Chair, Graduate Council (if applicable)

December 1st, 2025

Chair, Deans Council

NEW GRADUATE DEGREE OUTLINE FORM

1. Catalog Description:

Found below.

2. Graduate Degree Curriculum Outline

PROPOSED New Degree	
Degree: Master's in Applied Industrial Science (Non-Thesis) Major: Industrial Technology Concentration: Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs	
The Industrial Technology faculty work with industry to meet industry needs and close skills gaps seen in various industries. The Industrial Technology curriculum encourages active learning by utilizing technologies found in industry and real-world industrial scenarios. The Master's of Applied Industrial Science degree program is a great fit for students who are looking to advance in their career and learn about new methods to build a culture of continuous improvement. Industrial Technology students are leaders in their chosen fields with employment opportunities on the rise. The department provides one-on-one advising for all Industrial Technology students. To this extent, the curriculum is divided into three concentrations: • Industrial Management • Community College Leadership for Technical Programs • Instructional Design for Technical Programs The Master's of Applied Industrial Science in Industrial Technology program is designed to provide a well-rounded study in Industrial Management and manufacturing skills as well as curriculum development and analysis and administrative leadership. The Industrial Management concentration is a blend of operations management and production control methodology laced with continuous improvement and smart manufacturing and provides students with the opportunity to participate in data driven decision making. The Community College Leadership for Technical Programs concentration will provide students with knowledge in data analytics and project management along with community college program planning, development, and administration. The Instructional Design for Technical Programs concentration will provide students with the knowledge to develop and critique effective learning, goal, objective, and outcome development, and technologies used to benefit the learning process. Career opportunities and advancement are excellent for this field.	
Proposed Curriculum Outline	**Required Total Hours**
	30
Core Courses: INDT 6863 Manufacturing Strategy INDT 8143 Data Driven Decision Making INDT 8183 Smart Manufacturing INDT 8223 Technology in the 21st Century INDT 8323 Innovation for Industry and Education 1 Required Elective	
Total Core Hours	18
CONCENTRATION DESCRIPTION **Industrial Management**	
The Industrial Management concentration will provide students with a broad knowledge of management, data analysis, and manufacturing skills. The Industrial Management concentration is a blend of operations management and production control methodology laced with continuous improvement and smart manufacturing and provides students with the opportunity to participate in data driven decision making.	

Concentration Core Courses: **<u>Industrial Management</u>** INDT 6253 Advanced Lean Six Sigma Black Belt Techniques INDT 6873 Manufacturing Production Control INDT 8253 Industrial Operations INDT 8313 Industrial Management & Training Development	
Total Concentration Hours	12
CONCENTRATION DESCRIPTION **Community College Leadership in Technical Programs**	
The Community College Leadership concentration will provide students with knowledge in data analytics and project management along with community college program planning, development, and administration. Career opportunities and advancement are excellent for this field.	
Proposed Curriculum Outline	
CONCENTRATION CORE COURSES **<u>Community College Leadership in Technical Programs</u>** CCL 8143 Program Planning and Develop CCL 8153 HR Human Resources Administration CCL 8163 Org and Admin in Postsec Inst CCL 8173 Comm College Teaching	
Total Concentration Hours	12
CONCENTRATION DESCRIPTION **Instructional Design for Technical Programs**	
The Instructional Design concentration will provide students with the knowledge to develop and critique effective learning, goal, objective, and outcome development, and technologies used to benefit the learning process.	
Proposed Curriculum Outline	
CONCENTRATION CORE COURSES **<u>Instructional Design for Technical Programs</u>** TECH 6763 Digital Tools and Learning TECH 8533 Evaluation and Assessment in Instructional Systems and Technology TECH 8623 Instructional Design I TECH 8723 Instructional Design II	
Total Concentration Hours	12
Total Program Hours	30

Attachment B: Course Descriptions

Industrial Technology Courses

INDT 6253 Advanced Lean Six Sigma Black Belt Techniques: 3 hours.
(Prerequisite: INDT 4373 or Graduate Student) Three hours lecture. An in-depth understanding of lean and statistical tools used to reduce costs and improve processes. The DMAIC methodology of process improvement is thoroughly analyzed along with application of Minitab software.

INDT 6863 Manufacturing Strategy: 3 hours.
Three hours lecture. Manufacturing strategy focuses on the development and implementation of manufacturing proposals. Students will engage in process improvement, machine integration, and the business analytics required to write and present effective proposals.

INDT 6873 Manufacturing Production Control: 3 hours
(Prerequisite: INDT 4863 or INDT 6863) Three hours lecture. An overview of production systems and manufacturing operations with emphasis placed on the types of manufacturing systems and computer-integrated manufacturing.

INDT 8143 Data Driven Decision Making: 3 hours
Three hours lecture. Powerful informed decisions using data often explained by statistics is the main subject of this course. Data driven decision making methods and procedures which include data collection, sampling, data processing, and decision-making processes are covered.

INDT 8183 Smart Manufacturing: 3 hours
Three hours lecture. This course focuses on smart manufacturing and the production process by bringing together intelligent machines, advanced analytics, and the manufacturing industry workforce. Industrial operations into the fourth industrial revolution era, or Industry 4.0 is covered.

INDT 8223 Technology in the 21st Century: 3 hours.
(Prerequisite: INDT 8143) Three hours lecture. This class covers advanced topics of current industry trends. Topics covered include Electric vehicles, battery technology, predictive maintenance, Modeling and optimization, pf curve, technology forecasting, systems integration, horizon scanning, new energy solutions, artificial intelligence, self-driving cars.

INDT 8253 Industrial Operations *: 3 Credit Hours
Three hours lecture. Study of various operations in a supply chain and optimizing them to achieve competitive advantage. Topics include Supply Chain Design, Facility and Work Design, Forecasting and Demand Planning, Capacity Management, Operations Scheduling and Sequencing.

INDT 8313 Industrial Management & Training Development: 3 credit hours.
This course is an exploration of industry management strategies, change theory, training program development, and how to measure effective training.

INDT 8323 Innovation for Industry and Education: 3 Credit Hours
Three-hour lecture. This course is an exploration of industry management strategies, change theory, training program development, and how to measure effective training.

Community College Leadership in Technical Programs

CCL 8143 Program Planning and Develop: 3 hours.
In-depth analysis of workforce education including the mission, the knowledge base, planning and developing programs, and delivering programs.

CCL 8153 Human Resources Administration: 3 hours.
Examines the role of the human resources administrator on workforce education leadership; key administrative functions, workforce development, benefits and compensation, and employee relations are analyzed.

CCL 8163 Org and Admin in Postsec Inst. 3 hours.
Three hours lecture. Organization of postsecondary institutions and their culture and climate; constituencies; and administration, including consideration of current events affecting institutions, the challenges they present, and possible solutions.

CCL 8173 Comm College Teaching: 3 hours.
Comprehensive preparation for teaching at the community college: teaching strategies centered on outcomes and experiential learning, assessment of learning, and job related responsibilities.

Instructional Design for Technical Programs

TECH 6763 Digital Tools/Learning 3 hours lecture.
Methods of using digital tools for effective learning that is aligned with national standards in the 21st century classroom.

TECH 8533 Evaluation and Assessment in Instructional Systems and Technology 3 hours lecture.
Focus on the effective course/program evaluation and assessment methods, theories, and applications in instructional systems and technology.

TECH 8623 Instructional Design I 3 hours lecture.
The analysis, design, development, implementation, and evaluation of instruction for organizations.

TECH 8723 Instructional Design II (Prerequisite: TECH 8623 or TKT 8623). 3 hours lecture.
Advanced application of instructional design for organizations

3. Justification and Student Learning Outcomes

This new interdisciplinary Master's of Applied Science in Industrial Technology program is jointly administered by the Department of Industrial Technology, Instructional Design, and Community College Leadership. There has been an overwhelming increase in student enrollment in BS Industrial Technology. Given the 300% enrollment increase for the Bachelor's program in Industrial Technology at Mississippi State over the past 5 years, and in particular the increasing popularity of the Distance learning BS program, drives the need to develop a new Master's program in Industrial Technology that is focused in part on data science. Since data science has been a discipline of interest of the Provost committee on Data Science, and proposed MOA with institutions interest in Data Science. Also, there is currently no other Master's program in Industrial Technology in the State of Mississippi, and this program will develop and better prepare students for advanced careers in the Industrial and workforce sectors. This program is for Distance Campus.

The Master of Applied Science in Industrial Technology degree program has three specializations: Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs. The Industrial Management concentration will provide students with advanced technological skills based on topics such as data science, business analytics, smart manufacturing, systems integration, predictive maintenance, to name a few, along with the traditional manufacturing knowledge of production control and lean six sigma. On the other hand, the Community College Leadership for Technical Programs concentration will provide students with knowledge in data analytics and project management, along with community college program planning, development, and working. Finally, the Instructional Design for Technical Programs will allow students to develop and critique learning activities and programs as well as set learning objectives, outcomes, and goals.

Learning outcomes:

Industrial Management Concentration:
Upon graduation, graduates will be able to:

- Discuss the importance of process improvement culture in an organization at 90% when given discussion prompts.
- Apply the different tools for improving processes at 80% when given an industrial scenario.
- Categorize relationships between variables of data distribution at 85% when given questions referencing variables and relationships.
- Justify decisions using data models at 80% when given models to analyze.
- Develop work integration positions for industrial projects at 80% when given an industrial scenario.
- Manage project controls using the value measurement system at 80% when given an industrial scenario.
- Compare designs of manufacturing process control, process modeling, and monitoring at 80% when given an industrial scenario.
- Illustrate different innovations and methods developed in making new technologies at 85% when given questions referencing different innovations and methods.
- Describe the methods of forecasting the future of sustaining and disrupting technologies at 85% when given questions referencing methods of forecasting technologies.
- Discuss advanced concepts of Lean Six Sigma at 80% when given an industrial scenario.
- Explain the DMAIC strategy of process improvement at 85% when given questions referencing the DMAIC strategy.
- Apply appropriate methodologies for product and service designs and location analysis at 80% when given an industrial scenario.
- Design organizational plan for supply chain planning and controlling operations utilizing capacity planning, aggregate planning, and inventory management at 80% when given an industrial scenario.
- Compare different production planning concepts at 90% when given questions referencing production planning concepts.
- Investigate manufacturing operations and metrics at 80% when given metrics found in an industrial scenario.
- Compose strategic plan for industry or instructional settings at 80% when given an industrial scenario.
- Analyze motivation of leadership at 85% when given questions referencing various motivations for leadership.
- Examine motivation of learning at 85% when given questions referencing various motivations for learning.
- Develop a business plan at 80% when given an industrial scenario.
- Relate strategies for growth at 80% when given an industrial scenario.

Community College Leadership for Technical Programs Concentration:
Upon graduation, graduates will be able to:

- Examine business and data analytics at 80% when given sample data to analyze.
- Develop educational materials that meet standard metrics at 80% when given instructional design standards.
- Critique educational materials for effectiveness at 80% when given instructional design standards.
- Design curricula based on the needs of the target audience and industry at 80% when given instructional design standards.
- Analyze motivation of leadership at 85% when given questions referencing various motivations for leadership.
- Discuss leadership skills at 90% when given discussion prompts.
- Analyze community college operations at 85% when given questions referencing key terms and concepts in question format.
- Examine the role of human resources administrators at 85% when given questions referencing key terms and concepts in question format.
- Identify key functions of human resources administrators at 85% when given questions referencing key terms and concepts in question format.
- Compare teaching strategies at 85% when given questions referencing key terms and concepts in question format.
- Develop course outcomes at 80% when given instructional design standards.
- Discuss the importance of process improvement culture in an organization at 90% when given discussion prompts.
- Apply the different tools for improving processes at 80% when given an industrial scenario.
- Justify decisions using data models at 80% when given models to analyze.
- Develop work integration positions for industrial projects at 80% when given an industrial scenario.
- Illustrate different innovations and methods developed in making new technologies at 85% when given questions referencing different innovations and methods.
- Describe the methods of forecasting the future of sustaining and disrupting technologies at 85% when given questions referencing methods of forecasting technologies.
- Outline the importance and need for continuous improvement in an organization at 80% when given questions referencing key terms and concepts in question form.
- Develop network scheduling using project graphics at 80% when given an industrial scenario.
- Examine motivation of learning at 85% when given questions referencing various motivations for learning.

<u>Instructional Design for Technical Programs Concentration:</u>
Upon graduation, graduates will be able to:

- Develop educational materials that meet standard metrics at 80% when given instructional design standards.
- Critique educational materials for effectiveness at 80% when given instructional design standards.
- Design curricula based on the needs of the target audience and industry at 80% when given instructional design standards.
- Compare teaching strategies at 85% when given questions referencing key terms and concepts in question format.
- Develop course outcomes at 80% when given instructional design standards.
- Discuss the importance of process improvement culture in an organization at 90% when given discussion prompts.
- Outline the importance and need for continuous improvement in an organization at 80% when given questions referencing key terms and concepts in question form.
- Examine motivation of learning at 85% when given questions referencing various motivations for learning.
- Critique degree for effective learning at 80% when given instruction development best practices
- Develop program objectives, goals, and outcomes at 85% when given development standards
- Organize program objectives, goals, and outcomes at 90% when given development standards
- Explain benefits of technology usage in education at 80% when given trends and issues of instructional technology
- Explore trends and issues of instructional technology at 80% when given research prompt
- Integrate new technology into instruction at 80% when given best practices
- Develop course using Learning Management System at 80% when given rubric
- Assemble Instructional Design report at 80% when given rubric
- Examine techniques to test effective learning at 80% when given best practices

Assessment Methods:

Students will be evaluated through discussions, quizzes, exams, and group projects.

4. Support
   A letter of support from the Department Head of Industrial Technology, Community College Leadership, and Instructional Technology are included with this plan.

5. Proposed 4 – Letter Abbreviation
   INDT

6. Effective Data

   Spring 2024

7. CIP Code
   15.0612

NEW ACADEMIC DEGREE PROGRAM PROPOSAL

Institutional Request Form – Appendix 8
(Submit in PDF format with signatures.)

Institution:	Mississippi State University
Date of anticipated implementation:	August 2026
Program title as it will appear on Academic Program Inventory, Diploma, and Transcript:	Industrial Technology
Name of degree(s) to be awarded:	Master of Applied Science
Six-digit CIP code:	15.0612
Total credit-hour requirement to earn the degree:	30
Responsible academic unit:	Department of Industrial Technology, Instructional Design, and Community College Leadership
Institutional contact: Phone: Email:	Dr. Swapnil Patole & Ms. Lara Threet 662.325.7253 spatole@colled.msstate.edu and lthreet@colled.msstate.edu
SACSCOC Substantive Change:	☒ Program proposed **IS NOT** a substantive change. ☐ Program proposed **IS** a substantive change.
Incremental, five-year cost of implementation:	Minimal
Incremental, five-year per student cost of implementation:	Minimal
Potential five-year, new revenue:	$808,584.00
Potential new, five-year revenue per student:	$8,422.75
Will it attract new students to the university?	☒ Yes ☐ No
List any institutions within the State offering similar programs:	None

Number of students expected to enroll in first 5 years:		Number of students expected to graduate in first 5 years:	
Year 1	6	Year 1	0
Year 2	9	Year 2	3
Year 3	10	Year 3	8
Year 4	12	Year 4	8
Year 5	13	Year 5	16
Total	50	Total	35

Program summary (include second majors completed, if applicable):

The Master of Applied Science in Industrial Technology degree program has three specializations: Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs. This program will provide students with advanced technological skills based on topics such as data science, business analytics, smart manufacturing, systems integration, and predictive maintenance, along with traditional manufacturing knowledge of production control and lean six sigma. The program will develop students' managerial skills to effectively manage U.S. technology-intensive corporations. The Community College Leadership for Technical Programs will gain knowledge that will not only assist them in their careers but also help them transform secondary and post-secondary students into future Industrial Technologists. The Instructional Design for Technical Programs concentration will give students the knowledge to develop and critique effective learning, goal, objective, outcome development, and technologies used to benefit the learning process.

The audit of recently approved academic programs ensures that the program outcomes are congruent with the Board-approved proposal.

NEW ACADEMIC DEGREE PROGRAM PROPOSAL

Institutional Request Form – Appendix 8

(Submit in PDF format with signatures.)

Please respond to the questions on the following pages to aid the institution and IHL staff in making recommendations to the IHL Board of Trustees.

_____

Chief Academic Officer Signature – Date

_____

Institutional Executive Officer Signature – Date

NEW ACADEMIC DEGREE PROGRAM PROPOSAL

Institutional Request Form – Appendix 8
(Submit in PDF format with signatures.)

New Academic Degree Program Questions:

1 Describe how the degree program will be administered including the name and title of person(s) who will be responsible for curriculum development and ongoing program review.

A graduate coordinating committee for the Industrial Technology program will be formed, consisting of five members. The Five members will include three members from the Industrial Technology program appointed by the Department Head of Industrial Technology, Instructional Design, and Community College Leadership, one member from the Instructional Systems program appointed by the Department Head of Industrial Technology, Instructional Design, and Community College Leadership, and one member appointed by the Department Head of Educational Leadership.
This committee will be responsible for making admission decisions. The Committee will also hear student petitions, approve or disapprove requirements completed at other institutions, and decide on other matters on a case-by-case basis. The committee will also be responsible for maintaining the curriculum and keeping it current.
The program will also participate in the Thrive in Five accelerated graduate program. High-performing students who have completed 60 hours of collegiate work can take up to three courses (9 hours) of graduate work. They will follow the same admissions process as applicants who have completed an undergraduate degree.
The graduate coordinator, designated by the Department Head of Industrial Technology, Instructional Design, and Community College Leadership, will be responsible for student advising and the logistics of handling admission applications, admitting students, communicating, and soliciting decisions from the committee.

2 Describe the educational objectives of the degree program including the specific objectives of any concentrations, emphases, options, specializations, tracks, etc.

This new interdisciplinary Master of Applied Science in Industrial Technology program is jointly administered by the Department of Industrial Technology, Instructional Design, and Community College Leadership. There has been an overwhelming increase in student enrollment in the Bachelor of Science in Industrial Technology. Given the 300% enrollment increase for the Bachelor's program in Industrial Technology at Mississippi State over the past 5 years, and particularly the increasing popularity of the Distance learning BS program, drives the need to develop a new Master's program in Industrial Technology that is offered online. There is currently no other Master's program in Industrial Technology in the State of Mississippi. This program will develop and prepare students for advanced careers in industry and post-secondary academics.

The Master of Applied Science in Industrial Technology degree program has three specializations: Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs. The Industrial Management concentration will provide students with advanced technological skills based on topics such as data science, business analytics, smart manufacturing, systems integration, predictive maintenance, along with the traditional manufacturing knowledge of production control and lean six sigma. On the other hand, Community College Leadership for Technical Programs concentration will provide students with knowledge in data analytics and project management along with community college program planning, development, and administration. The Instructional Design for Technical Programs concentration will provide students with the knowledge to develop and critique effective learning, goal, objective, and outcome development, and technologies used to benefit the learning process.

3 Describe any special admission requirements for the degree program including any articulation agreements that have been negotiated or planned.

Applicants to the Master's of Applied Science Industrial Technology program at Mississippi State University will meet the University's standard requirements for graduate admissions. Applicants will submit a statement of purpose, resume, and undergo an interview with the graduate coordinating committee for the Master's of Applied Science in Industrial Technology degree program. Admission into the program will be determined by a vote of this committee based on academic and work history.

4 Describe the professional accreditation that will be sought for this degree program. If a SACSCOC visit for substantive change will be necessary, please note.

Association for Technology, Management and Applied Engineering (ATMAE) – "The Association of Technology, Management, and Applied Engineering (ATMAE) is a specialized accreditor for technology, management and applied engineering degrees. The primary purpose of ATMAE accreditation is to encourage and recognize the attainment of certain professional goals and standards for technology and to encourage continuous quality improvement through a voluntary and comprehensive evaluation process." https://www.atmae.org/page/Accreditation

5 Describe the curriculum for this degree program including the recommended course of study (appending course descriptions for all courses) and any special requirements such as clinical, field experience, community service, internships, practicum, a thesis, etc.

Core Courses (18 Credit Hours)
INDT 6863 Manufacturing Strategy*

INDT 8143 Data Driven Decision Making*
INDT 8183 Smart Manufacturing*
INDT 8223 Technology in the 21st Century*
INDT 8313 Industrial Management & Training Development*
1 Required Elective (Students can choose from one of the other options or TECH 8990 AI in Education)

Manufacturing Management Electives (12 Credit Hours)
INDT 6253 Advanced Lean Six Sigma Black Belt Techniques*
INDT 8253 Industrial Operations *
INDT 6873 Manufacturing Production Control*
INDT 8323 Innovation for Industry and Education*

Community College Leadership in Technical Programs Electives (12 Credit Hours)
CCL 8143 Program Planning and Development
CCL 8153 HR Human Resources
CCL 8163 Organization and Administration in Postsecondary Institutions*
CCL 8173 CC Teaching and Learning

Instructional Design for Technical Programs Electives (12 Credit Hours)
TECH 6763 Digital Tools and Learning
TECH 8533 Evaluation and Assessment in Instructional Systems and Technology
TECH 8623 Instructional Design I
TECH 8723 Instructional Design II

*Under review by UCCC or submitted concurrently.

INDT 6853 Manufacturing Strategy: 3 hours.
Three hours lecture. Manufacturing strategy focuses on the development and implementation of manufacturing proposals. Students will engage in process improvement, machine integration, and the business analytics required to write and present effective proposals.

INDT 8143 Data Driven Decision Making: 3 hours
Three hours lecture. Powerful informed decisions using data often explained by statistics is the main subject of this course. Data driven decision making methods and procedures which include data collection, sampling, data processing, and decision-making processes are covered.

INDT 8183 Smart Manufacturing: 3 hours
Three hours lecture. This course focuses on smart manufacturing and the production process by bringing together intelligent machines, advanced analytics, and the manufacturing industry workforce. Industrial operations into the fourth industrial revolution era, or Industry 4.0 is covered.

INDT 8223 Technology in the 21st Century: 3 hours.
(Prerequisite: INDT 8143) Three hours lecture. This class covers advanced topics of current industry trends. Topics covered include Electric vehicles, battery technology, predictive maintenance, Modeling and optimization, pf curve, technology forecasting, systems integration, horizon scanning, new energy solutions, artificial intelligence, self-driving cars.

INDT 8313 Industrial Management & Training Development: 3 credit hours.
This course is an exploration of industry management strategies, change theory, training program development, and how to measure effective training.

Required Elective (Students can choose from one of the other options or TECH 8990 AI in Education)

Manufacturing Management
INDT 6253 Advanced Lean Six Sigma Black Belt Techniques: 3 hours.
(Prerequisite: INDT 4373 or INDT Graduate Student) An in-depth understanding of lean and statistical tools used to reduce costs and improve processes. The DMAIC methodology of process improvement is thoroughly analyzed along with application of Minitab software.

INDT 8253 Industrial Operations: 3 Credit Hours
(INDT Graduate Student) Study of various operations in a supply chain and optimizing them to achieve competitive advantage. Topics include Supply Chain Design, Facility and Work Design, Forecasting and Demand Planning, Capacity Management, Operations Scheduling and Sequencing.

INDT 6873 Manufacturing Production Control: 3 hours
(Prerequisite: INDT 6863) An overview of production systems and manufacturing operations with emphasis placed on the types of manufacturing systems and computer-integrated manufacturing.

INDT 8323 Innovation for Industry and Education: 3 Credit Hours
This course is an exploration of industry management strategies, change theory, training program development, and how to measure effective training.

Community College Leadership in Technical Programs

CCL 8143 Program Planning and Develop: 3 hours.
In-depth analysis of workforce education including the mission, the knowledge base, planning and developing programs, and delivering programs.

CCL 8153 Human Resources Administration: 3 hours.
Examines the role of the human resources administrator on workforce education leadership; key administrative functions, workforce development, benefits and compensation, and employee relations are analyzed.

CCL 8163 Org and Admin in Postsec Inst. 3 hours.
Three hours lecture. Organization of postsecondary institutions and their culture and climate; constituencies; and administration, including consideration of current events affecting institutions, the challenges they present, and possible solutions.

CCL 8173 Comm College Teaching: 3 hours.
Comprehensive preparation for teaching at the community college: teaching strategies centered on outcomes and experiential learning, assessment of learning, and job-related responsibilities.

Instructional Design for Technical Programs
TECH 6763 Digital Tools/Learning 3 hours lecture.
Methods of using digital tools for effective learning that is aligned with national standards in the 21st century classroom.
TECH 8533 Evaluation and Assess in Instr Tech 3 hours lecture.
Focus on the effective course/program evaluation and assessment methods, theories, and applications in instructional systems and technology.
TECH 8623 Instructional Design I 3 hours lecture.
The analysis, design, development, implementation, and evaluation of instruction for organizations.
TECH 8723 Instructional Design II (Prerequisite: TECH 8623 or TKT 8623). 3 hours lecture.
Advanced application of instructional design for organizations

6	Describe the faculty who will deliver this degree program including the members' names, ranks, disciplines, current workloads, and specific courses they will teach within the program. If it will be necessary to add faculty in order to begin the program, give the desired qualifications of the persons to be added.

Industrial Technology

Swapnil Patole	Assist. Prof	INDT 8143 Data Driven Decision Making
Swapnil Patole	Assist. Prof	INDT 8253 Industrial Operations
Jody Buchanan	Instructor	INDT 8223 Technology in the 21st Century
Jody Buchanan	Instructor	INDT 6873 Manufacturing Production Control
Swapnil Patole	Assist. Prof	INDT 8183 Smart Manufacturing
Swapnil Patole	Assist. Prof	INDT 6253 Adv. Lean Six Sigma Black Belt Techniques
Jody Buchanan	Instructor	INDT 6863 Manufacturing Strategy
Greg Francom	Assist. Clinic. Prof	INDT 8313 Ind. Management & Training Development
Joanne Beriswill	Assoc. Prof	INDT 8323 Innovation for Industry and Education

Community College Leadership in

Stephanie King	Professor	CCL 8143 Program planning and development
Linda Coats	Professor	CCL 8153 HR Human Resources
Stephanie King	Professor	CCL 8163 Org. & Admin. in Postsecondary Institutions
Linda Coats	Professor	CCL 8173 CC teaching and learning

NEW ACADEMIC DEGREE PROGRAM PROPOSAL

Institutional Request Form – Appendix 8

(Submit in PDF format with signatures.)

Instructional Technology in Technical Programs (12 Credit Hours)

Greg Francom	Assist. Clinic. Prof	TECH 676 3 Digital Tools and Learning
Dana AlZoubi	Assist. Clinic. Prof	TECH 8533 Evaluation and Assessment in Instructional Systems and Technology
Joanne Beriswill	Assoc. Prof	TECH 8623 Instructional Design I
Joanne Beriswill	Assoc. Prof	TECH 8723 Instructional Design II

7 Describe the library holdings relevant to the proposed program, noting strengths and weaknesses. If there are guidelines for the discipline, do current holdings meet or exceed standards?

The Mississippi State Library has adequate holdings for the proposed program. The following databases for the Mississippi State Library are relevant to the Industrial Technology program:

- eBooks from EBSCO
- IEEE Xplore
- ScienceDirect
- SpringerLink

8 Describe the procedures for evaluation of the program and its effectiveness in the first five years of the program, including admission and retention rates, program outcome assessments, placement of graduates, changes in job market need/demand, ex-student/graduate surveys, or other procedures.

Students will undergo timely exams and quizzes throughout the semester to ensure continuous learning. Some classes will have a capstone project as part of their comprehensive exam. An exit interview will be conducted for all graduates to determine job placement, job roles, and suggestions on improving the Master's program. The graduate coordinator will keep track of admission and retention rates along with changes in job market demand. He will also record ex-graduates' contact information to build a nexus that will help us expand our advisory board and update the curriculum with in-demand skills. The graduate coordinator will also develop and administer surveys to students in their final semester, recent graduates, and employers to gain insight into the program from a student and industry perspective. This data will let the program know placement and success rates post-graduation. The data will also be used to begin discussions with the Industrial Advisory Board to ensure the skills and knowledge are meeting the market need. The graduate coordinator will also work with the University's Office of Institutional Research and Effectiveness to gain data on retention rates.

9 What is the specific basis for determining the number of graduates expected in the first five years?

The Master's of Science in Industrial Technology is unique and the only one in the State of Mississippi. Moreover, in nearby states of Alabama, Arkansas, and Louisiana no such master's degree exists with advanced manufacturing, Business analytics and data science skills to enable future leaders in technology to better equip themselves to serve the needs of America's modern age industries.

The current enrollment in Industrial Technology stands upwards of 250 students and many of our undergraduate students and alumni have enquired about the master's program start date. Some of these graduates have decided to go for MBA instead because a master's degree is not available in-state. Also, since this program has five concentrations, we anticipate a good number of applicants from secondary and post-secondary teachers for the Community College Leadership in Technical Programs and the Instructional Design for Technical Programs concentrations. Further, since this degree is offered completely online, looking at the growing popularity of the B.S. Industrial Technology in the State of Mississippi and surrounding States, we predict a good number of applicants from the entire country.

10 Using expected enrollment, provide the total anticipated budget for the program including implementation and 4 subsequent years (total of 5 years) of operation; any anticipated direct, indirect, and incremental costs necessary to start the program; anticipated, incremental annual revenue based on student enrollment; and other sources of funding.

Please explain what has been included in the costs and revenues.

Start-Up Costs: one-time costs associated with offering this program

Direct, Incremental Costs: additional annual costs to the university as a result of offering this program

Incremental Revenue: additional annual revenue assuming that this program will bring in new students paying full tuition

Non-Tuition Revenue: external funds, grants, contracts or other revenues attributable to the addition of this program

Differential: all revenues minus all costs

NEW ACADEMIC DEGREE PROGRAM PROPOSAL

Institutional Request Form – Appendix 8

(Submit in PDF format with signatures.)

Year	Incoming Students	Total Enrollment	Start-Up Costs	A Additional Annual Costs	B Additional Annual Revenue	C Non-Tuition Revenue	(B+C)-A Differential
2026-27	6	6	$2,000.00	$0.00	$62,724.00	$0.00	$62,724.00
2027-28	9	15	$0.00	$0.00	$156,810.00	$0.00	$156,810.00
2028-29	10	20	$0.00	$65,000.00	$209,080.00	$0.00	$144,080.00
2029-30	12	25	$0.00	$65,000.00	$261,350.00	$0.00	$196,350.00
2030-31	13	30	$0.00	$65,000.00	$313,620.00	$0.00	$248,520.00
TOTAL	50	96	$2,000.00	$195,000.00	$1,003,584.00	$0.00	$808,584.00

Start-Up Costs: one-time costs associated with offering this program.

Start-Up costs include marketing and recruitment activities and materials.

Direct, Incremental Costs: additional annual costs to the university as a result of offering this program.

Beginning Year 3, the program will hire an Assistant Professor to aid in teaching courses.

11 Program Demand: Select one or both of the following to address student demand:

☒ Survey of Student Interest

Number of surveys administered: 957
Number of completed surveys returned: 65
Percentage of students interested in program: 57%

Include a brief statement that provides additional information to explain the survey.

The survey was submitted to alumni of the program, our advisory board, those who employ our students, as well as recent graduates.

☐ Market Analysis or Evidence of Labor Market Need

As the workforce trends to higher degree requirements for management positions, providing a master's degree in the same field would be beneficial to students wishing to advance in their careers. The degree would offer a pathway for technical educators in community colleges who wish to move into administration. These same educators could also pursue the technical side of the degree if they wanted to teach at a university in the industrial technology field. There is only one other Mississippi university offering a degree like this one. The design of this degree focuses on managing industrial technologies, but also provides an avenue for education. In that regard, this degree is the only one of its kind in the state.

12 Employment Opportunities for Graduates (state, region, nation):

A Query for Mississippi jobs with Engineering manager skills turned up 339+ jobs, with above 68500+ listed nationwide. 6400+ Quality Manager jobs nationwide. Maintenance Manager 143+ jobs in Mississippi and 16200+ nationwide according to Glassdoor. Production Manager 125+ jobs in Mississippi and 15300+ jobs nationwide.

This tells us about the huge demand for managerial skills in the industry. Graduates from this program will inherit advanced manufacturing skills topped with data analytics and project management to better equip themselves to serve the needs of America's modern age industries.

MISSISSIPPI STATE UNIVERSITY

COLLEGE OF EDUCATION
Department of Industrial Technology, Instructional Design, and Community College Leadership
P.O. Box 9730
108 Herbert Street
Industrial Education Building
P. 662.325.2281

August 22, 2025

TO: Box Council, UCCC Committee Members, Graduate Council, Deans Council, IHL Committee

FROM: Lara Threet

RE: Support of creation of a Master's of Applied Science Degree in Industrial Technology curriculum

This letter is of support is offered by the Industrial Technology degree program faculty for the proposed addition of a Master's of Applied Science in Industrial Technology degree. The following additions are requested:

- Creation of the following courses
  - INDT 4253/6253 Advanced Lean Six Sigma Black Belt Techniques
  - INDT 4863/6863 Manufacturing Strategy
  - INDT 4873/6873 Manufacturing Production Control
  - INDT 8143 Data Driven Decision Making
  - INDT 8183 Smart Manufacturing
  - INDT 8223 Technology in the 21st Century
  - INDT 8253 Industrial Operations
  - INDT 8313 Industrial Management & Training Development
  - INDT 8323 Innovation for Industry and Education

The proposed degree provides alumni of the undergraduate degree and others around the country the opportunity to earn a Master's of Applied Industrial Science in Industrial Technology. This degree is the only of its kind in the state of Mississippi. The degree will be solely online and provide students with skills required to either manage industrial systems, manage community college technical programs, or develop curriculum for technical programs. The degree is unique in that it will have a concentration for Industrial Management, Community College Leadership for Technical Programs, and Instructional Design for Technical Programs.

The Industrial Management concentration will provide students with advanced technological skills based on topics such as data science, business analytics, smart manufacturing, systems integration, predictive maintenance, along with the traditional manufacturing knowledge of production control and lean six sigma. On the other hand, Community College Leadership for Technical Programs concentration will provide students with knowledge in data analytics and project management along with community college program planning, development, and administration. The Instructional Design for Technical Programs concentration will provide students with the knowledge to develop and critique effective learning, goal, objective, and outcome development, and technologies used to benefit the learning process.

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As indicated by the signatures below, the faculty of the Industrial Technology program unanimously approves the above proposal as written for submission to Box Council, the UCCC, the Graduate Council, the Deans Council, and IHL.

Denise Adair — 08/25/2025
Denise Adair (Aug 25, 2025 10:43:16 CDT)
Ms. Denise Adair — Date

Swapnil Patole — 08/25/2025
Swapnil Patole (Aug 25, 2025 14:15:10 CDT)
Dr. Swapnil Patole — Date

Jody Wayne Buchanan — 08/25/2025
Jody Wayne Buchanan (Aug 25, 2025 10:45:33 CDT)
Mr. Jody Buchanan — Date

Lara Threet — 08/26/2025
Lara Threet (Aug 26, 2025 12:23:23 CDT)
Ms. Lara Threet — Date

Mickey Giordano — 08/25/2025
Mickey Giordano (Aug 25, 2025 13:46:39 CDT)
Mr. Mickey Giordano — Date

John Wyatt — 08/25/2025
John Wyatt (Aug 25, 2025 14:52:40 CDT)
Dr. John Wyatt — Date

Fatima Hilali — 08/25/2025
Fatima Hilali (Aug 25, 2025 14:39:05 CDT)
Ms. Fatima Hilali — Date

Outlook

RE: Letter of Support

From King, Stephanie <SKing@colled.msstate.edu>
Date Thu 9/19/2024 8:36 AM
To Threet, Lara <lthreet@colled.msstate.edu>

Lara, I'll be glad to. The UCCC manual says, "If the new degree program includes the addition of a course, or courses, taught outside of their home department of the degree program, then the outside department(s) should provide a letter of support should be requested. Email communication is considered appropriate."

With this email, as the program coordinator for the MS in Workforce Education Leadership (WEL), I support the inclusion of the following courses from the WEL program in your curriculum. All courses are approved and being offered on a regular basis.

CCL 8143 Program Planning and Development
CCL 8153 Human Resources Administration
CCL 8163 Organization and Administration in Postsecondary Institutions
CCL 8173 Community College Teaching and Learning

Stephanie B. King, PhD
Professor, Community College Leadership
Mississippi State University

From: Threet, Lara <lthreet@colled.msstate.edu>
Sent: Wednesday, September 18, 2024 6:58 PM
To: King, Stephanie <SKing@colled.msstate.edu>
Subject: Letter of Support

Good evening, Dr. King.

I am working on redoing the paper work for the Industrial Technology Master's degree. We need an updated letter of support from Community College Leadership for the courses we would like to offer for the CCL for Technical Programs.

I am attaching the courses here as a refresher. If you have any questions, please let me know!

CCL 8143 Program Planning & Develo
CCL 8153 HR Human Resources
CCL 8163 Organization and Administration in Postsecondary Institutions (At the time of the original letter, this one was in development. Is that still the case?)
CCL 8173 CC Teaching and Learning

Thank you for your help and support!

Hail State!

Lara Threet

Program Coordinator & Instructor
Industrial Technology
Phone (662) 325.7253

158 C IED Building | 108 Herbert Street Mississippi State University

Click the icon to see what is happening in INDT!

Outlook

Graduate Classes

From Bray, Marty <mbray@colled.msstate.edu>
Date Thu 9/19/2024 3:54 PM
To Threet, Lara <lthreet@colled.msstate.edu>

With this email, as the graduate coordinator for the instructional systems/design and workforce development programs, I support the inclusion of the following courses from the graduate programs in your curriculum. All courses are approved and being offered on a regular basis.

TECH 6763 Digital Tools/Learning
TECH 8533 Evaluation and Assessment in Instructional Systems and Technology
TECH 8623 Instructional Design I
TECH 8723 Instructional Design II

Dr. Marty Bray

Dr. Lessell Martiny (Marty) Bray
Associate Professor
Industrial Technology, Instructional Design,
and Community College Leadership
Mississippi State University