

## A MEMORANDUM

DATE: June 28, 2022  
TO: Academic Deans Council  
FROM: Dr. Andy Perkins  
UCCC Chair  
RE: Change Notice 16

Listed below are curriculum change proposals which have been recommended by the University Committee on 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 July 12, 2022 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**

Technical Change <u>AELC 3333</u>	Approved	<p><b>FROM: AELC 3333 Professional Presentations in Agriculture and Life Sciences.</b> (3). Three hours lecture. Strategies and techniques for effective presentations in agriculture, life sciences and natural resources. Emphasis on oral and visual techniques for formal and non-formal situations.</p> <p><b>TO: AELC 3333 Professional Presentations in Agriculture and Life Sciences.</b> (3). (Prerequisite: AELC 3203). Three hours lecture. Strategies and techniques for effective presentations in agriculture, life sciences and natural resources. Emphasis on oral and visual techniques for formal and non-formal situations.</p> <p>Effective: Spring 2023</p>
Modification <u>FNH 4123/6123</u> +Online/Distance	Approved	<p><b>FROM: FNH 4123/6123 Nutrition and Chronic Disease.</b></p> <p><b>TO: FNH 4123/6123 Medical Nutrition Therapy I.</b></p> <p>Method of Delivery: F &amp; O</p> <p>Campus: 1 &amp; 5</p> <p>Effective: Summer 2022</p>

**ARCHITECTURE, ART AND DESIGN**

Modification <u>ARC 2713</u> (already 00approved for Gen. Ed.)	Approved	<p><b>FROM: ARC 2713 Passive Building Systems.</b></p> <p><b>TO: ARC 2713 Environmental Building Systems I.</b></p> <p>Method of Delivery: F</p> <p>30 Char: Environmental Building Sys I</p> <p>Effective: Fall 2022</p>
Modification <u>ARC 3723</u>	Approved	<p><b>FROM: ARC 3723 Active Building Systems.</b></p> <p><b>TO: ARC 3723 Environmental Building Systems II.</b></p> <p>Method of Delivery: F</p> <p>30 Char: Environmental Building Sys II</p> <p>Effective: Fall 2022</p>
Modification <u>BCS 2713</u> +Gen. Ed.	Approved	<p><b>FROM: BCS 2713 Passive Building Systems.</b></p> <p><b>TO: BCS 2713 Environmental Building Systems I.</b></p> <p>Campus: 1</p> <p>30 Char: Environmental Building Sys I</p> <p>Gen. Ed.: Natural Sciences</p> <p>Effective: Fall 2022</p>

Modification	<u>BCS 3723</u>	Approved	<b>FROM: BCS 3723 Active Building Systems. TO: BCS 3723 Environmental Building Systems II.</b> Method of Delivery: F 30 Char: Environmental Building Sys II Effective: Fall 2022
+ Online/Distance	<u>ID 6403</u> (split level with ID 4403)	Approved	<b>ID 4403/6403 Approval to Offer Online Campus 5 for Introduction to Historic Preservation.</b> Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2022
+ Online/Distance	<u>ID 8153</u>	Approved	<b>ID 8153 Approval to Offer Online Campus 5 for History of American Architecture and Landscape Architecture.</b> Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2022
+ Online/Distance	<u>ID 8163</u>	Approved	<b>ID 8163 Approval to Offer Online Campus 5 for Historic Preservation Law.</b> Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2022
+ Online/Distance	<u>ID 8483</u>	Approved	<b>ID 8463 Approval to Offer Online Campus 5 for Historic Preservation Planning.</b> Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2022

## ARTS AND SCIENCES

Addition	<u>CH 4911/6911</u>	Approved	<b>CH 4911/6911 Practical Chemical Laboratory Instruction I. (1).</b> (Prerequisite: Senior undergraduate student or graduate standing). One hour lecture. This course teaches the appropriate methods and professionalism required for teaching lab experiments in a graduate level program. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 400599 30 Char: Prac. Chem. Lab. Instruct. I Effective: Summer 2022
Modification +Online/Distance	<u>CO 3313</u>	Approved	<b>CO 3313 Approval to Offer Online Campus 5 for News Writing for the Electronic Media.</b> Method of Delivery: F & O Campus: 1, 2, & 5 30 Char: News Writing for Elec Media Effective: Fall 2022

+Online/Distance	<u>PPA 8183</u>	Approved	<b>PPA 8183 Approval to Offer Online Campus 5 for Local Government Finance.</b> Method of Delivery: F & X Campus: 1 & 5 Effective: Summer 2022
Modification +Online/Distance	<u>PS 3193</u>	Approved	<b>FROM: PS 3193 Intergovernmental Relations.</b> (Prerequisites: PS 1113 or PS 1193). Three hours lecture. Historical, prescriptive, and empirical studies of federalism with emphasis upon recent development [sic] in federal-state-local relationships. <b>TO: PS 3193 Intergovernmental Relations.</b> (3). (Prerequisite: PS 1113). Three hours lecture. Historical, prescriptive, and empirical studies of federalism with emphasis upon recent developments in federal-state-local relationships. Method of Delivery: F & O Campus: 1, 2, & 5 Effective: Fall 2022
Modification +Online/Distance	<u>PS 4703/6703</u>	Approved	<b>FROM: PS 4703/6703 Principles of Public Administration.</b> (3). (Prerequisites: PS 1113 and junior standing). Three hours lecture. Bureaucratic politics and power; administrative responsibility in a pluralist democracy; public administrative organization; public personnel administration; and public budgeting. <b>TO: PS 4703/6703 Principles of Public Administration.</b> (3). (Prerequisite: PS 1113). Three hours lecture. Bureaucratic politics and power; administrative responsibility in a plural democracy; public administrative organization; public personnel administration; and public budgeting. Method of Delivery: F & O Campus: 1, 2, & 5 Effective: Fall 2022

Technical Change	<u>ST 8123</u>	Approved	<p><b>FROM: ST 8123 Statistical Thinking: Probability Models and Theory of Statistics.</b> (3). (Prerequisite: ST 2733). Three hours Lecture. This course introduces concepts and theory of statistical inference, focuses on how to use data to infer (estimation and testing) about the unknown parameters and to do so in the most optimal way, it also covers basic theory of Bayesian inference.</p> <p><b>TO: ST 8123 Statistical Thinking: Probability Models and Theory of Statistics.</b> (3). (Prerequisite: MA 2733). Three hours Lecture. This course introduces concepts and theory of statistical inference, focuses on how to use data to infer (estimation and testing) about the unknown parameters and to do so in the most optimal way, it also covers basic theory of Bayesian inference.</p> <p>Effective: Fall 2022</p>
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## EDUCATION

Technical Change	<u>EDS 4403</u>	Approved	<p><b>FROM: EDS 4403 Evaluation of Learning in Secondary Schools.</b> (3). (Prerequisites: Admission to Teacher Education. Education). Three hours lecture. A study of critical assessment practices in secondary education through the use of data to inform instruction. Particular attention will be given to discipline specific pedagogy for evaluation of student learning in secondary classrooms.</p> <p><b>TO: EDS 4403 Evaluation of Learning in Secondary Schools.</b> (3). (Prerequisites: Admission to Teacher Education; Co-requisites: EDS 4886 and EDS 4896). Three hours lecture. A study of critical assessment practices in secondary education through the use of data to inform instruction. Particular attention will be given to discipline specific pedagogy for evaluation of student learning in secondary classrooms.</p> <p>Effective: Fall 2022</p>
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Addition +Online/Distance	<u>INDT 1001</u>	Approved	<b>INDT 1001 Introduction to Industrial Technology.</b> (1). One hour lecture. Students will be introduced to the Industrial Technology program, expected degree program outcomes, and program success strategies. Method of Instruction: S Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Intro to Industrial Tech Effective: Summer 2022
Addition +Online/Distance	<u>INDT 1003</u>	Approved	<b>INDT 1003 Technical Drafting and Print Reading.</b> (3). Two hours lecture. Two hours lab. Utilizing manual board skills to create technical drawings. Topics include industry-based terminology, drafting tools, scaling, dimensioning, and geometric construction of multi-view and working drawings to communicate design components commonly used in technical design. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 151399 30 Char: Tech Draft & Print Reading Effective: Summer 2022
Addition +Online/Distance	<u>INDT 1133</u>	Approved	<b>INDT 1133 Introduction to PTEC.</b> (3). Three hours lecture. This course will focus on the core technology, equipment, and processes found in the process technology environment. Students will learn about the general duties and responsibilities of a process technology technician. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150404 30 Char: Introduction to PTEC Effective: Summer 2022

Modification	<u>INDT 1813</u>	Approved	<p><b>FROM: INDT 1814 Basic Industrial Electricity and Electronics.</b> (4). (Prerequisites: MA 1323). Three hours lecture. Two hours laboratory. Study of fundamental industrial electrical and electronic principles with experimentation and project construction.</p> <p><b>TO: INDT 1813 Basic Industrial Electricity and Electronics.</b> (3). (Prerequisites: MA 1313). Two hours lecture. Two hours laboratory. Study of fundamental industrial electrical and electronic principles with experimentation and project construction. Method of Instruction: C, B, K, &amp; L Method of Delivery: F &amp; O Campus: 1 &amp; 5 CIP: 150303 30 Char: Basic Indust Elec &amp; Electron Effective: Fall 2022</p>
Technical Change	<u>INDT 2123</u>	Approved	<p><b>FROM: INDT 2123 Introduction to CNC Programming.</b> (3). (Prerequisite: INDT 1203). Two hours lecture. Two hours laboratory. Study of the fundamental concepts and techniques in the construction and programming of computer numerical controlled machines.</p> <p><b>TO: INDT 2123 Introduction to CNC Programming.</b> (3). (Prerequisites: INDT 1003 &amp; MA 1313) Two hours lecture. Two hours laboratory. Study of the fundamentals of machine and cutting tool construction as well as techniques employed in both the setup and programming of CNC machines. Effective: Fall 2022</p>

Modification	<u>INDT 2343</u>	Approved	<p><b>FROM: INDT 3343 3D Modeling for Manufacture.</b> (3). (Prerequisite: INDT 1203). Three hours lecture. Basic to intermediate drafting and design techniques using CAD and CAM software, with special emphasis on 3-D modeling and additive manufacturing.</p> <p><b>TO: INDT 2343 Parametric Modeling for 3D Design.</b> (3). (Prerequisite: INDT 1003). Two hours lecture. Two hours lab. This course focuses on the fundamentals of 3D parametric modeling. It includes design terminology and concepts associated with 3D modeling, parametric principles, rendering, and model testing.</p> <p>Method of Instruction: C  Method of Delivery: F &amp; O  Campus: 1 &amp; 5  CIP: 150612  30 Char: Parametric Model for 3D Design  Effective: Fall 2022</p>
Modification	<u>INDT 2353</u>	Approved	<p><b>FROM: INDT 4343 Computer Aided Drafting and Design.</b> (3). (Prerequisite: INDT 1203). Three hours lecture. Basic to advanced drafting and design techniques using CAD and CAM software, with special emphasis placed on 2D design for manufacturing.</p> <p><b>TO: INDT 2353 Industrial Computer Aided Drafting and Design.</b> (3). (Prerequisite: INDT 1003). Two hours lecture. Two hours lab. Fundamental theories and practice of computer aided drafting and design using direct modeling techniques. Special emphasis placed on 2D design for manufacturing.</p> <p>Method of Instruction: B  Method of Delivery: F &amp; O  Campus: 1 &amp; 5  CIP: 150613  30 Char: Industrial CADD  Effective: Fall 2022</p>

Addition +Online/Distance	<u>INDT 2533</u>	Approved	<p><b>INDT 2533 Processing of Oil and Gas.</b> (3). (Prerequisite: INDT 1133). Two hours lecture. Two hours laboratory. The course provides an overview of the oil and gas industry, including history, equipment, systems process, business model, and societal and environmental impact. The primary emphasis is on safe operations, discovery and exploration, production, transportation, refining, and marketing. Method of Instruction: B Method of Delivery: F &amp; O Campus: 1 &amp; 5 CIP: 1 &amp; 5 30 Char: Processing of Oil and Gas Effective: Summer 2022</p>
Modification	<u>INDT 3043</u>	Approved	<p><b>FROM: INDT 3044 Industrial Safety.</b> (4). Four hours lecture. Principles and procedures relating to appraisal, organization and administration of safety programs in industrial plants including implementation of occupational safety and health legislation. <b>TO: INDT 3043 Industrial Safety.</b> (3). Three hours lecture. Principles and procedures relating to appraisal, organization and administration of safety programs in industrial plants including implementation of occupational safety and health legislation. Method of Instruction: C Method of Delivery: F &amp; O Campus: 1 &amp; 5 CIP: 150612 30 Char: Industrial Safety Effective: Fall 2022</p>
Addition +Online/Distance	<u>INDT 3101</u>	Approved	<p><b>INDT 3101 Junior Seminar.</b> (1). (Prerequisite: INDT 1001 and Junior level). One hour seminar. Preparation and design of Senior project. Method of Instruction: S Method of Delivery: F &amp; O Campus: 1 &amp; 5 CIP: 15101 30 Char: Junior Seminar Effective: Summer 2022</p>

Modification	<u>INDT 3103</u>	Approved	<p><b>FROM: INDT 3104 Advanced Industrial Electricity and Electronics. (4).</b>          (Prerequisite: INDT 1814. Three hours lecture. Two hours laboratory. Continuation of TKI 1814. Study of and experimentation with industrial electronic transistor and integrated circuitry.</p> <p><b>TO: INDT 3103 Advanced Industrial Electricity and Electronics. (3).</b>          (Prerequisite: INDT 1813). Two hours lecture. Two hours laboratory. Continuation of INDT 1814. Study of and experimentation with A/C power, industrial electronics, transistors, and integrated circuitry. This course is a continuation of INDT 1813.          Method of Instruction: B, C, K, &amp; L          Method of Delivery: F &amp; O          Campus: 1 &amp; 5          CIP: 150303          30 Char: Adv Ind Ele, Electro          Effective: Fall 2022</p>
Addition +Online/Distance	<u>INDT 3133</u>	Approved	<p><b>INDT 3133 Process Equipment and Instrumentation. (3).</b> Two hours lecture. Two hours laboratory. This course will focus on the core technology, equipment, and processes found in the process technology environment. Students will learn about the general duties and responsibilities of a process technology technician.          Method of Instruction: B          Method of Delivery: F &amp; O          Campus: 1 &amp; 5          CIP: 150404          30 Char: Process Equip &amp; Instrument          Effective: Summer 2022</p>
Addition +Online/Distance	<u>INDT 3233</u>	Approved	<p><b>INDT 3233 Process Systems and Operations. (3).</b> (Prerequisite: INDT 1133). Two hours lecture. Two hours laboratory. Overview of the most common systems and operations found in process technology production facilities. Focuses on the safe day-to-day operations, routine maintenance procedures, emergency prevention, and emergency response.          Method of Instruction: B          Method of Delivery: F &amp; O          Campus: 1 &amp; 5          CIP: 150703          30 Char: Process Systems and Operations          Effective: Summer 2022</p>

Addition +Online/Distance	<u>INDT 3323</u>	Approved	<b>INDT 3323 Welding Technology II. (3).</b> (Prerequisite: INDT 2323). Two hours lecture. Two hours laboratory. The theory and practical use of welding technologies to explore open root v-groove and socket weld joint designs, material preparation, welding codes, Non-Destructive Examination methods and codes, welding procedure qualifications, and welder qualifications. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150000 30 Char: Welding Technology II Effective: Summer 2022
Addition +Online/Distance	<u>INDT 3333</u>	Approved	<b>INDT 3333 Process Quality and Troubleshooting. (3).</b> (Prerequisite: INDT 1133). Two hours lecture. Two hours laboratory. This course focuses on key areas of the prevention of problem scenarios through quality monitoring and prevention techniques, and the troubleshooting of such scenarios if they arise. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150702 30 Char: Process Qual & Troubleshooting Effective: Summer 2022
Addition +Online/Distance	<u>INDT 3703</u>	Approved	<b>INDT 3703 Principles of Packaging. (3).</b> (Prerequisite or Corequisite: INDT 2343). Three hours lecture. Basic principles, materials, and design applications of packaging for industry. This course will also discuss labeling and tracking processes for packages to move efficiently from manufacturer to purchaser. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 151199 30 Char: Principles of Packaging Effective: Summer 2022

Addition +Online/Distance	<u>INDT 3713</u>	Approved	<p><b>INDT 3713 Packaging Materials.</b> (3). (Prerequisite: INDT 3703). Two hours lecture. Two hours lab. This course will provide students with a deeper understanding of packaging materials, their applications, design, and testing protocols.</p> <p>Method of Instruction: B Method of Delivery: F &amp; O Campus: 1 &amp; 5 CIP: 150000 30 Char: Packaging Materials Effective: Summer 2022</p>
Addition +Online/Distance	<u>INDT 3753</u>	Approved	<p><b>INDT 3753 Introduction to Industrial Coatings.</b> (3). (Prerequisite INDT 2613). Three hours lecture. This course is an introductory course to industrial coatings technologies, their applications, and pretreatment.</p> <p>Method of Instruction: C Method of Delivery: F &amp; O Campus: 1 &amp; 5 CIP: 151199 30 Char: Intro to Industrial Coatings Effective: Summer 2022</p>
Modification	<u>INDT 3813</u>	Approved	<p><b>FROM: INDT 3813 Writing for Industry.</b> (3). (Prerequisites: Junior Standing). Three Hours Lecture. [sic] The creation of work instructions, manuals, requests for proposals, presentations, justification for equipment, and professional and personal written communications, using different communication media.</p> <p><b>TO: INDT 3813 Technical Writing and Presentation for Industry.</b> (3). (Prerequisites: Junior Standing). Three hours lecture. The creation of work instructions, manuals, requests for proposals, presentations, justification for equipment, and professional and personal written communications, using different communication media.</p> <p>30 Char: Tech Writing &amp; Pres for Ind Effective: Fall 2022</p>

Addition +Online/Distance	<u>INDT 3853</u>	Approved	<b>INDT 3853 Introduction to Power Coatings.</b> (3). (Prerequisite INDT 2613 and INDT 3753). Two hours lecture. Two hours lab. This course is an introductory course to industrial powder coatings technologies, their applications, surface preparation, and equipment. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 151199 30 Char: Intro to Powder Coatings Effective: Summer 2022
Addition +Online/Distance	<u>INDT 3863</u>	Approved	<b>INDT 3863 Introduction to Liquid Coatings.</b> (3). (Prerequisite: INDT 2613 and INDT 3753). Two hours lecture. Two hours lab. This course is an introductory course to industrial powder coatings technologies, their applications, surface preparation, and equipment. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 151199 30 Char: Intro to Liquid Coatings Effective: Summer 2022
Technical Change	<u>INDT 4103</u>	Approved	<b>FROM: INDT 4103 Industrial Control Systems.</b> (3). (Prerequisite: INDT 3104). Two hours lecture. Two hours laboratory. Application of basic and advanced industrial electronic principles to industrial control systems and processes. <b>TO: INDT 4103 Industrial Control Systems.</b> (3). (Prerequisite: INDT 3103). Two hours lecture. Two hours laboratory. Application of basic and advanced industrial electronic principles to industrial control systems and processes. Effective: Fall 2022
Modification	<u>INDT 4223/6223</u>	Withdrawn	<b>INDT 4223/6223 Quality Assurance (INDT 4224 to INDT 4223)</b>
Addition +Online/Distance	<u>INDT 4243</u>	Approved	<b>INDT 4243 System Design for Industrial Finishing Applications.</b> (3). (Prerequisite: INDT 3753). Three hours lecture. This course provides students with an overview of different coating finishing systems, technologies, safety, maintenance, and development of these systems. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150699 30 Char: Sys Design for Ind Finish App Effective: Summer 2022

Addition +Online/Distance	<u>INDT 4443</u>	Approved	<b>INDT 4443 Additive Manufacturing and Rapid Prototyping.</b> (3). (Prerequisite: INDT 2343). Two hours lecture. Two hours laboratory. By surveying the current design and technology approaches of the field, the course will teach students the standards and techniques used in Additive Manufacturing & Rapid Prototyping Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Additive Manuf & Rapid Proto Effective: Summer 2022
Addition +Online/Distance	<u>INDT 4703</u>	Approved	<b>INDT 4703 Sustainable Packaging.</b> (3). (Prerequisite: Junior Standing.) Three hours lecture. This course provides students with an overview of different coating finishing systems, technologies, safety, maintenance, and development of these systems. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150507 30 Char: Sustainable Packaging Effective: Summer 2022
Addition +Online/Distance	<u>INDT 4713</u>	Approved	<b>INDT 4713 Healthcare and Food Packaging.</b> (3). (Prerequisite: INDT 3713). Three hours lecture. Study of packing materials and their impact, legal, and economic considerations when used in healthcare and food packaging technologies. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150000 30 Char: Healthcare and Food Packaging Effective: Summer 2022

Reactivation	<u>MUA 2750</u>	Approved	<p><b>FROM: MUA 2750 Applied Organ.</b>  <b>TO: MUA 2750 Applied Organ.</b> (1 or 2).          (Pre-requisite: placement audition; intermediate to advanced level of keyboard skill; MUA 1010, 1020, 1750 or permission of instructor).          Variable credit 1 or 2 hours. 2-3 hours practice per hour of credit. May be repeated for credit.          Individual organ instruction for music, music education majors with a keyboard concentration.          Method of Instruction: I          Method of Delivery: F          Campus: 1 &amp; 2          CIP: 500903          30 Char: Applied Organ          Repeatable: Eight times          Effective: Summer 2022</p>
Reactivation	<u>MUA 3750</u>	Approved	<p><b>FROM: MUA 3750 Applied Organ.</b>  <b>TO: MUA 3750 Applied Organ.</b> (1-2). (Pre-requisite: placement audition; intermediate to advanced level of keyboard skill; MUA 2750 or permission of instructor; have passed the UDPE). Variable credit 1 or 2 hours. 2-3 hours practice per hour of credit. May be repeated for credit.          Method of Instruction: I          Method of Delivery: F          Campus: 1          CIP: 500903          30 Char: Applied Organ          Repeatable: Eight times          Effective: Summer 2022</p>

## ENGINEERING

Technical Change	<u>ECE 3423</u>	Approved	<p><b>FROM: ECE 3423 Circuits I.</b> (3).          (Prerequisite: Grade of C or better or concurrent enrollment in MA 3113 and ECE 3421). Three hours lecture. Fundamentals of electrical circuits. Circuit analysis techniques, resistance, sources, AC circuits, sinusoidal steady-state power calculations, and balanced three-phase circuits and transformers.          Accompanies ECE 3421.  <b>TO: ECE 3423 Circuits I.</b> (3). (Prerequisite: Grade of C or better or concurrent enrollment in MA 3113). Three hours lecture.          Fundamentals of electrical circuits. Circuit analysis techniques, resistance, sources, AC circuits, sinusoidal steady-state power calculations, and balanced three-phase circuits and transformers. Accompanies ECE 3421.          Effective: Fall 2022</p>
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2. Program Proposals by college/school:

**ARCHITECTURE, ART AND DESIGN**

Modification	<b>Degree:</b> BArch <b>Major:</b> Architecture	<b>Approved</b>	See proposal for list of revisions.  Effective: Fall 2022
Modification	<b>Degree:</b> BS <b>Major:</b> Building Construction Science	<b>Approved</b>	See proposal for list of revisions.  Effective: Fall 2022

**BUSINESS**

Technical Change	<b>Degree:</b> BS <b>Major:</b> Marketing <b>Concentrations:</b> Supply Chain Management, Integrated Digital Marketing, International Business, PGA Golf Management	<b>Approved</b>	Deletion of Supply Chain Management Concentration.  Effective: Fall 2022
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**EDUCATION**


Modification	<b>Degree:</b> BS <b>Major:</b> Special Education	<b>Approved</b>	See proposal for list of revisions.  Effective: Fall 2022
Modification (Campus 1 & Campus 2)	<b>Degree:</b> BS <b>Major:</b> Industrial Technology	<b>Approved</b>	See proposal for list of revisions.  Effective: Fall 2022

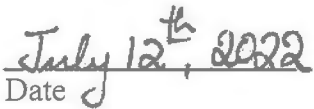
All of the proposals were approved with the exception of the following:

Proposals\*\*

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

  
\_\_\_\_\_  
Date

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: Architecture, Art and Design

Department: School of Architecture

Contact Person: Alexis Gregory

Mail Stop: 9633

E-mail: ag1201@msstate.edu

Nature of Change: Modification

Date Initiated: 11/22/21

Effective Date: Fall 2022

Current Degree Program Name: Bachelor of Architecture

Major: Architecture

Concentration: None

New Degree Program Name: Bachelor of Architecture

Major: Architecture

Concentration: None

## Summary of Proposed Changes:

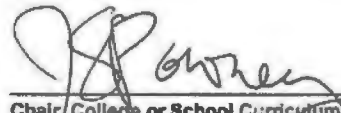
- Change of name for ARC 2713 Passive Building Systems to ARC 2713 Environmental Building Systems I and change of name for ARC 3723 Active Building Systems to ARC 3723 Environmental Building Systems II.
- Program description change to more specifically outline requirements to progress into the 5<sup>th</sup> year of the 5-year Bachelor of Architecture program.

**Approved:**

**Date:**

  
\_\_\_\_\_  
Department Head

30 Nov 2021  
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\_\_\_\_\_  
Chair, College or School Curriculum Committee  
Digitally signed by Angi  
Elsea Bourgeois, Ph.D.  
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28 JANUARY 2022  
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Dean of College or School

  
\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

6/24/22  
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Chair, Graduate Council(if applicable)

  
\_\_\_\_\_  
Chair, Deans Council

July 12<sup>th</sup>, 2022  
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## DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing undergraduate degree outline. If any General Education (Core) course is acceptable in the category, please indicate by saying "any Gen Ed course". There is no need to type in the whole list. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Include the course prefix, number, and title in both columns. Expand this table as needed.

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Architecture Major: Architecture Concentration: None	Degree: Bachelor of Architecture Major: Architecture Concentration: None
<p>The curriculum is divided into three levels: the first-year level is defined as the pre-professional program; the second and third year levels comprise the professional core; the fourth year comprises topical and capstone studios, and the fifth-year provides the transition to professional practice and includes a comprehensive capstone project. The first four years are at the main campus of MSU in Starkville; the fifth year is at the Stuart C. Irby Studios at the Jackson Center in downtown Jackson, MS.</p> <p>The curriculum is composed of four areas of study representing:</p> <p>(1) Design, (2) History/Theory, (3) Technology, (4) Professional Practice</p> <ol style="list-style-type: none"> <li>1. Design - concerned with the understanding of form, shape, and space responsive to human needs and programs, together with development of architectural communication skills and ecological thinking.</li> <li>2. History/Theory - composed of architectural history and philosophy, current architectural ideas, and future implications.</li> <li>3. Technology - providing basic knowledge in physical systems of structures, materials, construction, sustainability, and service systems of plumbing, electrical, heating, and air conditioning.</li> <li>4. Professional Practice - representing the tools necessary to direct the processes of architecture, integrated project delivery, areas of economics, real estate, finance, land use, law, and office practice.</li> </ol> <p>Located at the Jackson Center in downtown Jackson, the fifth-year offers the student the opportunity to develop depth and expertise through research and design projects focused on urban issues. The city provides a major resource for the activities and a laboratory for continued study. Professionals involved in all areas of the built environment contribute to the teaching. This experience provides a transition from the academic foundation to the professional realities of architecture.</p>	<p>The curriculum is divided into three levels: the first-year level is defined as the pre-professional program; the second and third year levels comprise the professional core; the fourth year comprises topical and capstone studios, and the fifth-year provides the transition to professional practice and includes a comprehensive capstone project. The first four years are at the main campus of MSU in Starkville; the fifth year is at the Stuart C. Irby Studios at the Jackson Center in downtown Jackson, MS. <b>Students cannot progress to the fifth year until all undergraduate courses (1000-4000-level taken during the first four years of the program) have been satisfactorily completed.</b></p> <p>The curriculum is composed of four areas of study representing:</p> <p>(1) Design, (2) History/Theory, (3) Technology, (4) Professional Practice</p> <ol style="list-style-type: none"> <li>1. Design - concerned with the understanding of form, shape, and space responsive to human needs and programs, together with development of architectural communication skills and ecological thinking.</li> <li>2. History/Theory - composed of architectural history and philosophy, current architectural ideas, and future implications.</li> <li>3. Technology - providing basic knowledge in physical systems of structures, materials, construction, sustainability, and service systems of plumbing, electrical, heating, and air conditioning.</li> <li>4. Professional Practice - representing the tools necessary to direct the processes of architecture, integrated project delivery, areas of economics, real estate, finance, land use, law, and office practice.</li> </ol> <p>Located at the Jackson Center in downtown Jackson, the fifth-year offers the student the opportunity to develop depth and expertise through research and design projects focused on urban issues. The city provides a major resource for the activities and a laboratory for continued study. Professionals involved in all areas of the built</p>

		environment contribute to the teaching. This experience provides a transition from the academic foundation to the professional realities of architecture.	
"[Click here and type old concentration description]" NONE		"[Click here and type old concentration description]" NONE	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition I EN 1103 or Accelerated Composition I EN 1163	3	English Composition I EN 1103 or Accelerated Composition I EN 1163	3
English Composition II EN 1113 or Accelerated Composition II EN 1173	3	English Composition II EN 1113 or Accelerated Composition II EN 1173	3
Fine Arts (General Education): any Gen Ed course	3	Fine Arts (General Education): any Gen Ed course	3
General Physics I PH 1113	3	General Physics I PH 1113	3
General Physics II PH 1123	3	General Physics II PH 1123	3
<i>Passive Building Systems ARC 2713<sup>1</sup></i>	3 <sup>1</sup>	<b>Environmental Building Systems I ARC 2713<sup>1</sup></b>	3 <sup>1</sup>
<i>College Algebra MA 1313<sup>2</sup></i>	3	<b>Calculus for Business and Life Sciences I MA 1613<sup>2</sup></b>	3
<i>Trigonometry MA 1323<sup>2</sup></i>	3		
<i>Calculus for Business and Life Sciences I MA 1613</i>	3		
History of Architecture I ARC 2313 <sup>3</sup>	3 <sup>3</sup>	History of Architecture I ARC 2313 <sup>3</sup>	3 <sup>3</sup>
History of Architecture II ARC 3313 <sup>3</sup>	3 <sup>3</sup>	History of Architecture II ARC 3313 <sup>3</sup>	3 <sup>3</sup>
Social/Behavioral Sciences (Gen Ed): any Gen Ed course	6	Social/Behavioral Sciences (Gen Ed): any Gen Ed course	6
Approved Electives	12	Approved Electives	12
Architectural Design I-A ARC 1536	6	Architectural Design I-A ARC 1536	6
Architectural Design I-B ARC 1546	6	Architectural Design I-B ARC 1546	6
Architectural Design II-A ARC 2536	6	Architectural Design II-A ARC 2536	6
Architectural Design II-B ARC 2546	6	Architectural Design II-B ARC 2546	6
Architectural Design III-A ARC 3536	6	Architectural Design III-A ARC 3536	6
Architectural Design III-B ARC 3546	6	Architectural Design III-B ARC 3546	6
Architectural Design IV-A ARC 4536	6	Architectural Design IV-A ARC 4536	6
Architectural Design IV-B ARC 4546	6	Architectural Design IV-B ARC 4546	6
Architectural Design V-A ARC 5576	6	Architectural Design V-A ARC 5576	6
Architectural Design V-B ARC 5589	9	Architectural Design V-B ARC 5589	9
Drawing I ART 1213	3	Drawing I ART 1213	3
Drawing II ART 2313 <sup>4</sup>	3	Drawing II ART 2313 <sup>4</sup>	3
History of Architecture I ARC 2313 <sup>3</sup>	3	History of Architecture I ARC 2313 <sup>3</sup>	3
History of Architecture II ARC 3313 <sup>3</sup>	3	History of Architecture II ARC 3313 <sup>3</sup>	
History of Architecture III ARC 3323	3	History of Architecture III ARC 3323	
Architectural Theory ARC 4313	3	Architectural Theory ARC 4313	3
<i>Passive Building Systems ARC 2713<sup>1</sup></i>	3	<b>Environmental Building Systems I ARC 2713<sup>1</sup></b>	3
<i>Active Building Systems ARC 3723</i>	3	<b>Environmental Building Systems II ARC 3723</b>	
Materials ARC 2723	3	Materials ARC 2723	
Assemblages ARC 3713	3	Assemblages ARC 3713	3
Architectural Structures I ARC 3904	4	Architectural Structures I ARC 3904	4
Structures II ARC 3914	4	Structures II ARC 3914	4
Site Planning for Architects ARC 4733	3	Site Planning for Architects ARC 4733	3
Legal Aspects for Architecture ARC 5383	3	Legal Aspects for Architecture ARC 5383	3
Architectural Programming ARC 5443	3	Architectural Programming ARC 5443	3
Architectural Practice ARC 5493	3		
Philosophy of Architecture ARC 5353	3		

Theory of Urban Design ARC 5623	3	Architectural Practice ARC 5493	3
		Philosophy of Architecture ARC 5353	3
		Theory of Urban Design ARC 5623	3
Concentration Courses NONE	0	Concentration Courses NONE	0
Total Hours	152	Total Hours	152

<sup>1</sup> Counted as both Science requirement and Major Core.

<sup>2</sup> MA 1313 College Algebra and MA 1323 Trigonometry should be completed prior to beginning studies in architecture. Students may satisfy math prerequisite requirements of MA 1313 College Algebra with a 24 ACT Math score. Students may also take the College Level Examination Program (CLEP) exam to place out of MA 1313. Students with a 26 ACT Math score may satisfy the prerequisite of PH 1113 General Physics I.

<sup>3</sup> Counted as both Humanities requirement and Major Core.

<sup>4</sup> ART 1223 Drawing II is required of all students receiving a grade of “C” or less in ART 1213 Drawing I.

Justification:

- Change of name for ARC 2713 Passive Building Systems to ARC 2713 Environmental Building Systems I and change of name for ARC 3723 Active Building Systems to ARC 3723 Environmental Building Systems II.
  - The current course names are not reflective of the collaborative nature of the active and passive systems in architecture. The new names are intended to reflect the relationship between the two courses as both being environmental building systems.
- Students are unclear that they cannot take 1000-4000 level courses when they move to Jackson to complete the 5<sup>th</sup> year of the 5-year Bachelor of Architecture program. This additional language is to make clear this requirement.



**MISSISSIPPI STATE**  
UNIVERSITY

**COLLEGE OF ARCHITECTURE, ART AND DESIGN**

School of Architecture

P.O. Box AQ  
240 Giles Hall | 899 Collegeview Street  
Mississippi State, MS 39762

P. 662.325.2202

F. 662.325.8872

caad.msstate.edu

November 19, 2021

Director Karen Spence  
**School of Architecture**  
P.O. Box AQ  
Mississippi State, MS 39762

Director Spence,

The School of Architecture Curriculum Committee unanimously agrees and supports the course modifications for the following:

- Name change for ARC 2713 Passive Building Systems and BCS 2713 Passive Building Systems to ARC 2713 Environmental Building Systems I and BCS 2713 Environmental Building Systems I
- Name change for ARC 3723 Active Building Systems and BCS 3723 Active Building Systems to ARC 3723 Environmental Building Systems II and BCS 3723 Environmental Building Systems II

The Committee feels these changes will improve the education of our students while supporting their chances for success in the program. We are available to answer any questions you have regarding the program changes.

Sincerely,

Alexis Gregory  
Chair, Curriculum Committee  
Associate Professor

Silvina Lopez Barrera  
Vice Chair, Curriculum Committee  
Assistant Professor

Jassen Callender  
Professor

Chris Hunter  
Assistant Professor

Jacob Gines  
Associate Professor

Duane McLemore  
Assistant Professor

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:** Architecture, Art and Design  
**Program**

**Department:** Building Construction Science

**Contact Person:** Saeed Rokooei    **Mail Stop:** 9635    **E-mail:** sr1971@msstate.edu  
**Nature of Change:** Modification    **Date Initiated:** 11/22/21    **Effective Date:** Fall 2022  
**Current Degree Program Name:** Bachelor of Science

**Major:** Building Construction Science

**Concentration:** None

**New Degree Program Name:** Bachelor of Science

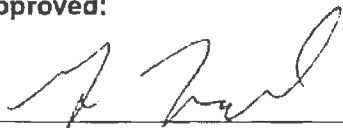
**Major:** Building Construction Science

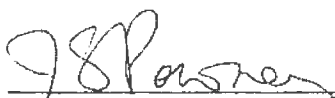
**Concentration:** None

**Summary of Proposed Changes:**

- Change of name for BCS 2713 Passive Building Systems to BCS 2713 Environmental Building Systems I and change of name for BCS 3723 Active Building Systems to BCS 3723 Environmental Building Systems II.

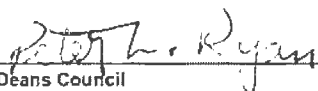
Approved:

  
\_\_\_\_\_  
Department Head

  
\_\_\_\_\_  
Chair, College or School Curriculum Committee  
Angi Elsea  
Bourgeois, Ph.D.  
Date: 2022.03.04 14:45:25 -06 00'  
Dean of College or School

  
\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council(if applicable)

  
\_\_\_\_\_  
Chair, Deans Council

Date:

\_\_\_\_\_  
1/28/22

\_\_\_\_\_  
28 JANUARY 2022

\_\_\_\_\_  
6/24/22

\_\_\_\_\_  
July 12<sup>th</sup>, 2022

## DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing undergraduate degree outline. If any General Education (Core) course is acceptable in the category, please indicate by saying "any Gen Ed course". There is no need to type in the whole list. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Include the course prefix, number, and title in both columns. Expand this table as needed.

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor of Science Major: Building Construction Science Concentration: None		Degree: Bachelor of Science Major: Building Construction Science Concentration: None	
<p>The Building Construction Science degree program is a four year Bachelor of Science degree designed to prepare graduates for careers in construction or construction-related fields. The 124 credit hour program is an interdisciplinary curriculum that builds upon expertise existing within the School of Architecture and the College of Engineering and the College of Business as well as the building construction industry to provide a knowledge base in business, engineering, and construction sciences. The curriculum's foundational areas are based on a problem-and inquiry-based learning. Through the four year studio curriculum, students learn by applying skills and knowledge to complex construction problems that integrate multiple subject areas. The studio-based teaching focuses on the use of case studies and integration of multiple subject areas. This integration of a broader scope of architectural, engineering, construction, and business practices is a different approach than a traditional construction technology curriculum that separates subject areas into distinct courses.</p> <p>The Building Construction Science curriculum includes a general education foundation of mathematics, science, business, and construction specific courses: construction systems, building technology, structures, and materials and methods of construction and incorporates these and other areas such as estimating, scheduling, safety, project management, and construction law into the studio curriculum. Course development is built upon the strengths of the three colleges that are collaborating in the effort. Building Construction Science students collaborate with architecture, engineering, and interior design students as a regular part of their course work. The Building Construction Science program is accredited by the American Council for Construction Education (ACCE).</p>		<p>The Building Construction Science degree program is a four year Bachelor of Science degree designed to prepare graduates for careers in construction or construction-related fields. The 124 credit hour program is an interdisciplinary curriculum that builds upon expertise existing within the School of Architecture and the College of Engineering and the College of Business as well as the building construction industry to provide a knowledge base in business, engineering, and construction sciences. The curriculum's foundational areas are based on a problem-and inquiry-based learning. Through the four year studio curriculum, students learn by applying skills and knowledge to complex construction problems that integrate multiple subject areas. The studio-based teaching focuses on the use of case studies and integration of multiple subject areas. This integration of a broader scope of architectural, engineering, construction, and business practices is a different approach than a traditional construction technology curriculum that separates subject areas into distinct courses.</p> <p>The Building Construction Science curriculum includes a general education foundation of mathematics, science, business, and construction specific courses: construction systems, building technology, structures, and materials and methods of construction and incorporates these and other areas such as estimating, scheduling, safety, project management, and construction law into the studio curriculum. Course development is built upon the strengths of the three colleges that are collaborating in the effort. Building Construction Science students collaborate with architecture, engineering, and interior design students as a regular part of their course work. The Building Construction Science program is accredited by the American Council for Construction Education (ACCE).</p>	
"[Click here and type old concentration description]" NONE		"[Click here and type old concentration description]" NONE	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English Composition I EN 1103 or Expanded English Composition I EN 1104	3	English Composition I EN 1103 or Expanded English Composition I EN 1104	3

English Composition II EN 1113 or Accelerated Composition II EN 1173	3	English Composition II EN 1113 or Accelerated Composition II EN 1173	3
Fine Arts Architectural Appreciation ARC 1013	3	Fine Arts Architectural Appreciation ARC 1013	3
General Physics I PH 1113	3	General Physics I PH 1113	3
General Physics II PH 1123	3	General Physics II PH 1123	3
<i>Passive Building Systems BCS 2713</i>	3	<b>Environmental Building Systems I BCS 2713</b>	3
Calculus for Business and Life Sciences I MA 1613	3	Calculus for Business and Life Sciences I MA 1613	3
Introduction to Statistics ST 2113	3	Introduction to Statistics ST 2113	3
Humanities (Gen Ed): any Gen Ed course	6	Humanities (Gen Ed): any Gen Ed course	6
Principles of Macroeconomics EC 2113	3	Principles of Macroeconomics EC 2113	3
Principles of Microeconomics EC 2123	3	Principles of Microeconomics EC 2123	3
Approved Electives	3	Approved Electives	3
Surveying CE 2213	3	Surveying CE 2213	3
Virtual Design and Construction BCS 2313	3	Virtual Design and Construction BCS 2313	3
<i>Active Building Systems BCS 3723</i>	3	<b>Environmental Building Systems II BCS 3723</b>	3
Structures I BCS 3904	4	Structures I BCS 3904	4
Structures II BCS 3914	4	Structures II BCS 3914	4
Building Construction Studio A BCS 1116	6	Building Construction Studio A BCS 1116	6
Building Construction Studio B BCS 1126	6	Building Construction Studio B BCS 1126	6
Building Construction Studio I BCS 2116 Or Construction Internship/Co-op BCS 3006	6	Building Construction Studio I BCS 2116 Or Construction Internship/Co-op BCS 3006	6
Building Construction Studio 2 BCS 2226	6	Building Construction Studio 2 BCS 2226	6
Building Construction Studio 3 BCS 3116	6	Building Construction Studio 3 BCS 3116	6
Building Construction Studio 4 BCS 3126 Or Construction Internship/Co-op BCS 3006	6	Building Construction Studio 4 BCS 3126 Or Construction Internship/Co-op BCS 3006	6
Building Construction Studio 5 BCS 4116	6	Building Construction Studio 5 BCS 4116	6
Building Construction Studio 6 BCS 4126	6	Building Construction Studio 6 BCS 4126	6
Mechanical and Electrical Systems BCS 3213	3	Mechanical and Electrical Systems BCS 3213	3
High Performance Construction BCS 3323	3	High Performance Construction BCS 3323	3
Professional Communication and Practice BCS 4222	2	Professional Communication and Practice BCS 4222	2
Principles of Financial Accounting ACC 2013	3	Principles of Financial Accounting ACC 2013	3
Principles of Managerial Accounting ACC 2023	3	Principles of Managerial Accounting ACC 2023	3
The Legal Environment of Business BL 2413	3	The Legal Environment of Business BL 2413	3
Principles of Management MGT 3113	3	Principles of Management MGT 3113	3
Concentration Courses		Concentration Courses	
Total Hours	124	Total Hours	124

Justification:

- Change of name for BCS 2713 Passive Building Systems to BCS 2713 Environmental Building Systems I and

change of name for BCS 3723 Active Building Systems to BCS 3723 Environmental Building Systems II.

- The current course names are not reflective of the collaborative nature of the active and passive systems in architecture. The new names are intended to reflect the relationship between the two courses as both being environmental building systems.



**MISSISSIPPI STATE**  
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**COLLEGE OF ARCHITECTURE, ART AND DESIGN**  
Building Construction Science Program

P.O. Box 6222  
132 Howell Building | 823 Collegeview Street  
Mississippi State, MS 39762

P. 662.325.8305

F. 662.325.1297

[caad.msstate.edu](http://caad.msstate.edu)

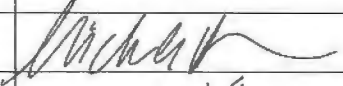
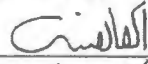
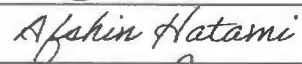
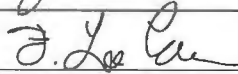
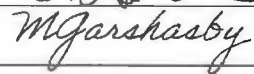
November 19, 2021

To: University Committee on Courses and Curricula

Re: Approval for BCS Courses Name Change

The Building Construction Science Curriculum Committee has voted to approve the following modifications to the BCS courses:

- Name change for ARC 2713 Passive Building Systems and BCS 2713 Passive Building Systems to ARC 2713 Environmental Building Systems I and BCS 2713 Environmental Building Systems I.
- Name change for ARC 3723 Active Building Systems and BCS 3723 Active Building Systems to ARC 3723 Environmental Building Systems II and BCS 3723 Environmental Building Systems II.

Name/Title	Committee Role	Signature
Michele Herrmann, Associate Professor	Voting Member	
Saeed Rokooei, Assistant Professor	Committee Chair, Voting Member	
Afshin Hatami Assistant Professor	Voting Member	
Lee Carson, Assistant Clinical Professor	Voting Member	
Mohsen Garshasby Assistant Professor	Voting Member	

Please feel free to contact me with any questions or concerns.

Sincerely,

Saeed Rokooei  
Assistant Professor  
Building Construction Science Curriculum Committee Chair

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:** College of Business    **Department:** Marketing, Quantitative Analysis & Business Law

**Contact Person:** Melissa Moore    **Mail Stop:** 9582    **E-mail:** mlm145@msstate.edu

**Nature of Change:** Deletion of Concentration

**Date Initiated:** 06/07/22    **Effective Date:** Fall 2022

**Current Degree Program Name:** Bachelor of Science

<b>Major:</b> Marketing	<b>Concentration:</b> Supply Chain Management Integrated Digital Marketing International Business PGA Golf Management
-------------------------	--

**New Degree Program Name:** Same

<b>Major:</b> Same	<b>Concentration:</b> Integrated Digital Marketing International Business PGA Golf Management
--------------------	---

**Summary of Proposed Changes:** Delete Supply Chain Management concentration from Marketing major. There are no revisions to the other concentrations.

Approved:

  
\_\_\_\_\_  
Department Head

Date:

6-20-22

\_\_\_\_\_  
Chair, College or School Curriculum Committee


  
\_\_\_\_\_  
Dean of College or School

6/21/22

  
\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

6/24/22

\_\_\_\_\_  
Chair, Graduate Council(if applicable)

  
\_\_\_\_\_  
Chair, Deans Council

July 12<sup>th</sup>, 2022

Additional details:

In Spring 2021, Supply Chain Logistics (SCL) was approved by IHL as a new major, officially offered to Campus 1 students in Fall 2021. Additionally, in Spring 2022, SCL was approved as a new minor, to be offered to Campus 1 students starting Fall 2022. The need for a concentration is redundant.

Currently, there are 28 students enrolled in the Supply Chain Management (SCM) concentration. The effective turn-off date in the Curriculum Rules in Banner for the SCM concentration will be Fall 2022; no additional students will be admitted. Students enrolled in the concentration will be contacted by the Supply Chain Logistics (SCL) advisor and encouraged to either shift to the SCL major or SCL minor; however, if preferred, the student(s) will still be allowed to continue in the concentration if moving to the SCL major or minor is not desired.

**MEMO:**

College of Business  
 Chair, College Committee on Courses & Curriculum  
 McCool Hall



College of Business  
 Dr. Campbell  
 Chair, College Committee on Courses & Curriculum  
 McCool Hall

From: Robert Moore, Chair, Departmental Curriculum Committee

Date: June 13, 2022

Re: Letter of Support for Supply Chain Concentration Deletion

The MKT & SCL faculty have reviewed the proposed deletion.

Faculty	Support	Do Not Support	Signature	Date
Dr. Frank Adams <a href="mailto:fadams@business.msstate.edu">fadams@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Frank Adams</i>	20 Jun 22
Dr. Chris Boone <a href="mailto:cboone@business.msstate.edu">cboone@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>C/B</i>	20 Jun 22
Dr. Mike Breazeale <a href="mailto:mbreazeale@business.msstate.edu">mbreazeale@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Michael Breazeale</i>	6/15/22
Dr. Joel Collier <a href="mailto:jcollier@business.msstate.edu">jcollier@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Joel Collier</i>	6-14-22
Dr. Bingyan Hu <a href="mailto:bhu@business.msstate.edu">bhu@business.msstate.edu</a>	<input type="checkbox"/>	<input type="checkbox"/>	see attached	
Dr. Myles Landers <a href="mailto:mlanders@business.msstate.edu">mlanders@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Myles Landers</i>	6-14-22
Dr. Jason Lueg <a href="mailto:jlueg@business.msstate.edu">jlueg@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Jason Lueg</i>	6/14/22
Dr. Robert Moore <a href="mailto:rmoore@business.msstate.edu">rmoore@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Robert Moore</i>	6-13-22
Dr. Melissa Moore <a href="mailto:mmoore@business.msstate.edu">mmoore@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Melissa Moore</i>	6-13-22
Dr. Nicole Ponder <a href="mailto:nponder@business.msstate.edu">nponder@business.msstate.edu</a>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>Nicole Ponder</i>	6-14-22
Dr. Kevin Shanahan <a href="mailto:kshanahan@business.msstate.edu">kshanahan@business.msstate.edu</a>	<input type="checkbox"/>	<input type="checkbox"/>		

## Moore, Robert

---

**From:** Hu, Bingyan  
**Sent:** Monday, June 13, 2022 5:01 PM  
**To:** Moore, Robert  
**Cc:** Moore, Melissa  
**Subject:** Re: Deletion of SCM Concentration

Hi Rob,

I support the proposed change. Thank you!

Best  
Bing

**From:** Moore, Robert <RMoore@business.msstate.edu>  
**Date:** Monday, June 13, 2022 at 4:55 PM  
**To:** Collier, Joel <JCollier@business.msstate.edu>, Adams, Frank <fadams@business.msstate.edu>, Boone, Christopher <cboone@business.msstate.edu>, Ponder, Nicole <nponder@business.msstate.edu>, Lueg, Jason <JLueg@business.msstate.edu>, Landers, Myles <vlanders@business.msstate.edu>, Breazeale, Mike <mbreazeale@business.msstate.edu>, France, Stephen <sfrance@business.msstate.edu>, Ponder, Nicole <nponder@business.msstate.edu>, Hu, Bingyan <bhu@business.msstate.edu>  
**Cc:** Moore, Melissa <mmoore@business.msstate.edu>  
**Subject:** Deletion of SCM Concentration

Greetings,

There is a suggested deletion of the SCM concentration from the SCM Faculty.

Please sign the support/nonsupport letter in the copy room before June 24 so this can go into effect in the Fall.

An email regarding your support / non support is acceptable.

Thank you.  
Rob

Robert S. Moore, Ph.D.  
Hunter Henry Fellow & Professor of Marketing  
Department of Marketing, Quantitative Analysis & Business Law  
324 H McCool  
Office: (662) 325-8648

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:** College of Education

**Department:** Curriculum, Instruction, and Special Education

**Contact Person:** Kellie Fondren

**Mail Stop:** 9705

**E-mail:** [pkb22@msstate.edu](mailto:pkb22@msstate.edu)

**Nature of Change:** Program Modification

**Date Initiated:** 12-5-2020

**Effective Date:** Fall 2022

**Current Degree Program Name:** Bachelor of Science

**Major:** Special Education

**Concentration:** N/A

**New Degree Program Name:** no change

**Major:** no change

**Concentration:** no change

**Summary of Proposed Changes:**

The proposed changes to the undergraduate special education program of study will include the addition of TECH 4763 Digital Tools for 21<sup>st</sup> Century Teaching and Learning., which will replace EDF 3333 Social Foundations on the program of study. Further, EDX 3253 Evaluating Learning in Special Education will be added to the program of study replacing EPY 3253 Evaluating Learning. Finally, EDX 4243 Planning for Diversity in Learners in Special Education will replace EPY 4243 Planning for Diversity in Learners on the program of study.

This program modification is being requested due to discussions during Teacher Education Council meetings that included representation from employers, school and community partners as well as Completer/Alumni Survey data revealed the need for more technology preparation and the EDF and EPY courses be more content specific to the program area.

The University of Mississippi and The University of Kentucky are two EPPS that have added similar coursework into their special education program of study.

Approved:

Date:

Johnicholson  
Department Head

3.24.2022

Ridolfi  
Chair, College or School Curriculum Committee

4/14/2022

Kimberly R. Hall  
Dean of College or School

04/14/2022

As. Perno  
Chair, University Committee on Courses and Curricula

6/24/22

Chair, Graduate Council (if applicable)

Peter L. Ryan  
Chair, Deans Council

July 12<sup>th</sup>, 2022

## DEGREE MODIFICATION OUTLINE FORM

Use the chart below to make modifications to an existing undergraduate degree outline. If any General Education (Core) course is acceptable in the category, please indicate by saying "any Gen Ed course". There is no need to type in the whole list. All deleted courses and information should be shown in *italics* and all new courses and information in **bold**. Include the course prefix, number, and title in both columns. Expand this table as needed.

CURRENT Degree Description		PROPOSED Degree Description	
Degree: Bachelor Major: Special Education Concentration:		Degree: Bachelor Major: Special Education Concentration:	
The program in Special Education is designed to prepare teachers to teach children and youth with learning disabilities, intellectual disabilities, and other areas of exceptionality. The curriculum in special education is designed to meet the requirements for the endorsements in the areas of specialization. The degree program includes extensive field experiences working in schools and classrooms. Courses in the degree program provide students with methods for teaching early childhood, elementary, and secondary students with special needs. The degree program culminates in a semester-long teaching internship in a K-12 setting.		The program in Special Education is designed to prepare teachers to teach children and youth with learning disabilities, intellectual disabilities, and other areas of exceptionality. The curriculum in special education is designed to meet the requirements for the endorsements in the areas of specialization. The degree program includes extensive field experiences working in schools and classrooms. Courses in the degree program provide students with methods for teaching early childhood, elementary, and secondary students with special needs. The degree program culminates in a semester-long teaching internship in a K-12 setting.	
CURRENT CURRICULUM OUTLINE	Required Hours	PROPOSED CURRICULUM OUTLINE	Required Hours
English (Ex: EN 1103 English Comp I):	6	English (Ex: EN 1103 English Comp I):	6
Fine Arts (General Education):	3	Fine Arts (General Education):	3
Natural Sciences (2 labs required from Gen Ed):	6-8	Natural Sciences (2 labs required from Gen Ed):	6-8
Math or Science Elective	3	Math or Science Elective	3
Math (General Education): MA 1313	6-9	Math (General Education): MA 1313	6-9
Humanities (General Education): PSY 1013 or other	6	Humanities (General Education): PSY 1013 or other	6
Social/Behavioral Sciences (Gen Ed):	6	Social/Behavioral Sciences (Gen Ed):	6
Collateral Electives	24	Collateral Electives	24
EDX 3203 Introduction to Learning Disabilities	3	EDX 3203 Introduction to Learning Disabilities	3
EDX 3213 Individualizing Instruction for Exceptional Children	3	EDX 3213 Individualizing Instruction for Exceptional Children	3

EDX 3223 Introduction to Emotional and Behavioral Disorders	3	EDX 3223 Introduction to Emotional and Behavioral Disorders	3
EDX 3233 Contingency Management	3	EDX 3233 Contingency Management	3
EPY 2513 Human Growth and Development	3	EPY 2513 Human Growth and Development	3
EDX 4103 Introduction to Teaching Students with Intellectual and Developmental Disabilities	3	EDX 4103 Introduction to Teaching Students with Intellectual and Developmental Disabilities	3
<i>EDF 3333 Social Foundations</i>	3	<b>TECH 4763 Digital Tools for 21<sup>st</sup> Century Teaching and Learning</b>	3
RDG 3113 Early Literacy 1* RDG 3123 Early Literacy 2* (* Courses must be taken together)	6	RDG 3113 Early Literacy 1* RDG 3123 Early Literacy 2* (* Courses must be taken together)	6
EDX 4113 Methods and Materials for Early Childhood Students with Disabilities	3	EDX 4113 Methods and Materials for Early Childhood Students with Disabilities	3
EDX 4413 Working with Parents of Students with Disabilities	3	EDX 4413 Working with Parents of Students with Disabilities	3
EDX 4353 Assistive Technology \\	3	EDX 4353 Assistive Technology	3
EDX 4123 Methods and Materials for Elementary Students with Disabilities	3	EDX 4123 Methods and Materials for Elementary Students with Disabilities	3
EDX 4133 Methods and Materials for Secondary Students with Disabilities	3	EDX 4133 Methods and Materials for Secondary Students with Disabilities	3
<i>EPY 3253 Evaluating Learning</i>	3	<b>EDX 3253 Evaluating Learning in Special Education</b>	3
<i>EDF 4243 Planning for Diversity of Learners</i>	3	<b>EDX 4243 Planning for Diversity of Learners in Special Education</b>	3
EDX 4886 Teaching Internship in Special Education	6	EDX 4886 Teaching Internship in Special Education	6
EDX 4896 Teaching Internship in Special Education	6	EDX 4896 Teaching Internship in Special Education	6
EDX 4873 Professional Seminar in Special Education	3	EDX 4873 Professional Seminar in Special Education	3
Total Hours	123	Total Hours	123

### 3. Justification and Student Outcomes

The Special Education faculty have reviewed the program of study and the course objectives for each course to ensure we are preparing preservice teachers with the most recent evidence based practices. This program modification is being requested after multiple to discussions during Teacher Education Council meetings that included representation from employers, school and community partners as well as Completer/Alumni Survey data revealed the need for more technology preparation and the EDF and EPY courses be more content specific to the program

area. Students have been asked to provide evaluative feedback of courses to determine gaps in professional skills needs to develop an effective learning environment. After the review of feedback from students, professions, and community partners, our faculty are proposing the following changes to the undergraduate special education program of study to strengthen the learning outcomes of teacher candidates. The addition of TECH 4763 Digital Tools for 21<sup>st</sup> Century Teaching and Learning., will replace EDF 3333 Social Foundations on the program of study. Further, EDX 3253 Evaluating Learning in Special Education will be added to the program of study replacing EPY 3253 Evaluating Learning. Finally, EDX 4243 Planning for Diversity in Learners in Special Education will replace EPY 4243 Planning for Diversity in Learners on the program of study. The student outcomes for the College of Education will not change. The modifications will provide opportunity to strengthen the outcomes for students completing our program.

The student outcomes for the College of Education:

1. Professionalism: The knowledge, skills and dispositions needed to become a professional and to help all students learn; the demonstration of responsible, ethical behavior and good judgment.
2. Differentiation and Individualization: Knowledge and understanding of human behavior and individual differences; the ability to adapt instruction/services to meet the needs of all students/clientele.
3. Knowledge of Content: The deep understanding of both content and teaching strategies relevant to the discipline.
4. Assessment/Evaluation: The basic skills of assessment and evaluation relevant to the major field of study; the ability to use assessments to improve teaching, learning, and performance.
5. Communication Skills: Ability to use appropriate language, speak and write with clarity, use standard English in writing and speaking; the demonstration of good listening and interpersonal skills.
6. Social/Cultural Skills: The belief that all students can learn and the relevant social and cultural skills for a diverse environment; tolerant, fair, and culturally appropriate behavior.
7. Technology: The ability to infuse appropriate technology into professional practice.
8. Reflection: The ability to use self-reflection and problem-solving for improvement and personal and professional growth.
9. Collaboration: The ability to work cooperatively with peers/colleagues, parents, the community, and other entities.
10. Planning: The basic skills of planning instruction/services to meet the needs of diverse populations; the ability to design and implement effective strategies that positively impact student learning.
11. Managing: The basic skills of management in diverse settings.
12. Resourcefulness: The skills in locating and utilizing relevant resources at the local, state, regional, national, and international levels.

The program modification applies to all campuses (1, 2, 5). Students must be enrolled in Phase II (Teacher Education) of the program and special education majors.

1. This program change will not alter how we meet local, state, regional, and national educational and cultural needs.
2. This program change will not result in duplication in the system.
3. This program change will not advance student diversity within the discipline.
4. This program change will result in an increase in the potential placement of graduates.
5. The program change will not result in an increase in the potential salaries of graduates.

4. SUPPORT- See attached letters of support.

5. PROPOSED 4-LETTER ABBREVIATION: EXED

6. Effective Date- August 2022.



**MISSISSIPPI STATE**  
UNIVERSITY

**COLLEGE OF EDUCATION**  
Department of Curriculum, Instruction,  
and Special Education  
P.O. Box 9705  
175 President's Circle  
Allen Hall, Room 310  
Mississippi State, MS 39762  
P. 662.325.3523  
F. 662.325.7857  
cise.msstate.edu

March 21, 2022

Dr. Nicholson,

The special education faculty supports the proposed modification to the undergraduate special education program of study will include the addition of TECH 4763 Digital Tools for 21<sup>st</sup> Century Teaching and Learning. EDF 3333 Social Foundations will be removed. The addition of new course EDX 3253 Evaluating Learning in Special Education with EPY 3253 Evaluating Learning being removed. The addition of new course EDX 4243 Planning for Diversity in Learners in Special Education with EDF 4243 Planning for Diversity in Learners being removed.

This program modification is being requested due to discussions during Teacher Education Council meetings that included representation from employers, school, and community partners as well as Completer/Alumni Survey data revealed the need for more technology preparation and the EDF and EPY courses be more content specific to the program area.

Thank you,

Dr. Kent Coffey

Date

Dr. Sandy Devlin

Date

Dr. Kellie Fondren

Date

DATE: January 06, 2021

TO: Box Council and UCCC Committee Members

FROM: Dr. Gregory M. Francom

RE: Support of TECH 4763/6763 Course revisions and inclusion

This letter of support is offered by the Instructional Systems and Workforce Development faculty for the inclusion of the TECH 4763/6763 Digital Tools for 21st Century Learning course in the Special Education degree program. As indicated by the signatures below, a majority of the program area faculty have approved the proposal as written for submission to the Box Council and the UCCC.

The ISWD faculty have indicated below their support (or do not support) the proposal as written for submission to the Box Council and the UCCC.

Name	Support	Do not support	Signature
Adams, James	<input type="checkbox"/>	<input type="checkbox"/>	<u>James H. Adams</u>
Beriswill, Joanne	<input type="checkbox"/>	<input type="checkbox"/>	<u>Joanne Beriswill</u>
Bracey, Pamela	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>P. Bracey</u>
Francom, Greg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Gregory M. Francom</u>
Lee, Sang Joon	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Sang Joon Lee</u>
Okojie, Mabel	<input type="checkbox"/>	<input type="checkbox"/>	<u>Mabel Okojie</u>
Sun, Yan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Yan Sun</u>
Yu, Chien	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Chien Yu</u>
Yu, Wei-Chieh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Wei-Chieh Yu</u>

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, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

**College:** Education

**Department:** ISWD

**Contact Person:** Lara Threet **Mail Stop:** 9730 **E-mail:** lthreet@colled.msstate.edu

**Nature of Change:** Modification **Date Initiated:** 02/01/2022 **Effective Date:** Fall 2022

**Degree to be offered at:** Campus 1 & 5

**Current Degree Program Name:** BS Industrial Technology

**Major:** Industrial Technology **Concentration:** Industrial Automation, Industrial Distribution  
(Campus 1 only), Manufacturing & Maintenance  
Management

**New Degree Program Name:**

**Major:** Industrial Technology **Concentration:** *Industrial Automation,  
Manufacturing and Maintenance Management,  
Industrial Coatings, Industrial  
Packaging, Process Technology*

**Summary of Proposed Changes:** All concentrations within the Industrial Technology bachelor's degree are approved for both Campus 1 and Campus 5. Please see attached sheet for more detailed information.

**Approved:**

**Date:**

\_\_\_\_\_  
Department Head

\_\_\_\_\_  
Chair, College or School Curriculum Committee

\_\_\_\_\_  
Dean of College or School

  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council (if applicable)

  
Chair, Deans Council

6/24/22

July 12<sup>th</sup>, 2022



IHL Action Required

APPROVAL FORM FOR

# DEGREE PROGRAMS

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**College:** Education

**Department:** ISWD

**Contact Person:** Lara Threet **Mail Stop:** 9730 **E-mail:** lthreet@colled.msstate.edu

**Nature of Change:** Modification **Date Initiated:** 02/01/2022 **Effective Date:** Fall 2022

**Degree to be offered at:** Campus 1

**Current Degree Program Name:** BS Industrial Technology

**Major:** Industrial Technology **Concentration:** Industrial Automation, Industrial Coatings, Industrial Packaging, Manufacturing & Maintenance Management, Process Technology

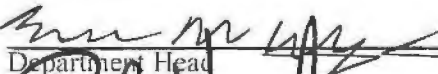
**New Degree Program Name:**

**Major:** **Concentration:** Industrial Coatings, Industrial Packaging, Process Technology

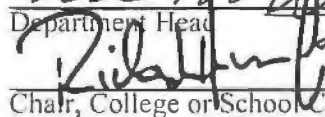
**Summary of Proposed Changes:** Please see attached sheet

**Approved:**

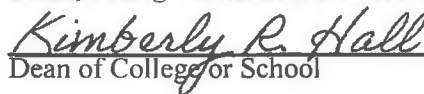
**Date:**

  
\_\_\_\_\_  
Department Head

  
\_\_\_\_\_  
2/4/2022

  
\_\_\_\_\_  
Chair, College or School Curriculum Committee


\_\_\_\_\_  
4/13/2022

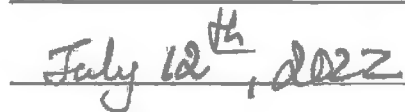
  
\_\_\_\_\_  
Dean of College or School

\_\_\_\_\_  
04/14/2022

\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council (if applicable)

  
\_\_\_\_\_  
Chair, Deans Council

  
\_\_\_\_\_  
July 12<sup>th</sup>, 2022

☐ IHL Action Required

☐ SACS Letter Sent

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, along with all required copies, to UCCC, Garner Hall, Room 279, Mail Stop 9702.

**College:** Education

**Department:** ISWD

**Contact Person:** Lara Threet **Mail Stop:** 9730 **E-mail:** lthreet@colled.msstate.edu

**Nature of Change:** Modification **Date Initiated:** 02/01/2022 **Effective Date:** Fall 2022

**Degree to be offered at:** Campus 5

**Current Degree Program Name:** BS Industrial Technology

**Major:** Industrial Technology **Concentration:** Industrial Automation, Industrial Coatings, Industrial Packaging, Manufacturing & Maintenance Management, Process Technology

**New Degree Program Name:**

**Major:**

**Concentration:** Industrial Coatings, Industrial Packaging, Process Technology

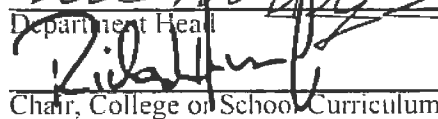
**Summary of Proposed Changes:** Please see attached sheet

**Approved:**

**Date:**

  
\_\_\_\_\_  
Department Head

  
\_\_\_\_\_  
2/4/2022

  
\_\_\_\_\_  
Chair, College of School Curriculum Committee


\_\_\_\_\_  
4/13/2022

  
\_\_\_\_\_  
Dean of College of School

\_\_\_\_\_  
04/14/2022

\_\_\_\_\_  
Chair, University Committee on Courses and Curricula

\_\_\_\_\_  
Chair, Graduate Council (if applicable)

  
\_\_\_\_\_  
Chair, Deans Council

  
\_\_\_\_\_  
July 12<sup>th</sup>, 2022

☐ IHL Action Required

☐ SACS Letter Sent

**A summary of the proposed changes for the Industrial Technology degree are as follows:**

**General Education:**

Addition of MA 1313 College Algebra or MA 1323 Trigonometry

**Industrial Technology Changes:**

- We will remove the Industrial Distribution Concentration.
- We will add the following concentrations
  - Industrial Coatings
  - Industrial Packaging
  - Process Technology
- The Industrial Technology Degree Program will have 5 active concentrations
  - Industrial Automation (Existing)
  - Manufacturing & Maintenance Management (Existing)
  - Industrial Coatings (New)
  - Industrial Packaging (New)
  - Process Technology (New)

***Industrial Technology Core Changes:***

- Removal of INDT 1203 Industrial Drafting and Print Reading from the degree program
- Modification in credit hours for the following
  - INDT 1814 Basic Industrial Electricity and Electronics to INDT 1813 Industrial Electricity and Electronics
  - INDT 3044 Industrial Safety to INDT 3043 Industrial Safety
  - INDT 3104 Advanced Industrial Electricity and Electronics to INDT 3103 Advanced Industrial Electricity and Electronics
- Modification of course name for the following
  - INDT 3343 3D Modeling for Manufacturing to INDT 2343 Parametric Modeling for 3D Design
  - INDT 3813 Writing for Industry to INDT 3813 Technical Writing & Presentation for Industry
  - INDT 4343 Computer Aided Drafting & Design to INDT 2353 Industrial Computer Aided Drafting and Design
- Modification of course number for the following
  - INDT 1814 Basic Industrial Electricity and Electronics to INDT 1813 Industrial Electricity and Electronics
  - INDT 3044 Industrial Safety to INDT 3043 Industrial Safety
  - INDT 3104 Advanced Industrial Electricity and Electronics to INDT 3103

- Advanced Industrial Electricity and Electronics
  - INDT 3343 3D Modeling for Manufacturing to INDT 2343 Parametric Modeling for 3D Design
  - INDT 4343 Computer Aided Drafting & Design to INDT 2353 Industrial Computer Aided Drafting & Design
- Removal of the following from the Industrial Technology Core Course requirements
  - INDT 2613 Industrial Fluid Power
  - INDT 3103 Advanced Industrial Electricity and Electronics
  - INDT 3343 3D Modeling for Manufacturing
  - INDT 3683 CNC Machine Metal Processes
  - INDT 4213 Energy Sources and Power Technology
- Addition of the following courses
  - INDT 1101 Introduction to Industrial Technology
  - INDT 1003 Technical Drafting and Print Reading
  - INDT 3101 Junior Seminar
  - INDT 3323 Welding Technology II
  - INDT 3533 Intro to Process Technology
  - INDT 3543 Process Equipment & Instrumentation
  - INDT 3703 Principles of Packaging
  - INDT 3713 Packaging Materials
  - INDT 3753 Introduction to Industrial Coatings
  - INDT 3843 Rapid Prototyping
  - INDT 3854 Powder Coatings
  - INDT 3864 Liquid Coatings
  - IDNT 3873 E-Coatings
  - INDT 4233 Maintenance Management
  - INDT 4243 System Design for Industrial Finishing Applications
  - INDT 4343 Computer Aided Drafting and Design
  - INDT 4543 Process Troubleshooting
  - INDT 4553 Oil and Gas Production
  - INDT 4703 Sustainable Packaging
  - INDT 4713 Healthcare and Food Packaging
- Restructure curriculum components into new sections - Introductory Skills, Management Skills, General Knowledge, and Seminars
  - Introductory Skills
    - INDT 1203 Industrial Drafting and Print Reading
    - INDT 1813 Basic Industrial Electricity and Electronics
    - INDT 2113 Introduction to PLC Programming
    - INDT 2123 Introduction to CNC Programming
    - INDT 3223 Industrial Materials
    - INDT 3813 Technical Writing & Presentation for Industry
  - Management Skills
    - INDT 3063 Industrial Relations

- INDT 3373 Forecast and Cost Modeling
- Addition of options Management Skills
  - ACC 2013 Principles of Financial Accounting or ACC 2203 Survey of Accounting
  - BL 2413 Legal Environment of Business
  - MGT 3823 Responsible Leadership
  - *Any MGT 3000+ level course with the approval of the instructor and advisor*
- General Knowledge
  - INDT 2323 Welding Technology
  - INDT 3043 Industrial Safety
  - INDT 3243 Industrial Metrology
  - INDT 3363 Motion & Time Study
  - INDT 4224 Quality Assurance
- Seminars
  - INDT 1101 Introduction to Industrial Technology
  - INDT 3101 Junior Seminar
  - INDT 4801 Senior Seminar

***Industrial Automation Concentration:***

- Addition of the following courses into Industrial Automation Concentration Required Courses
  - INDT 2353 Computer Aided Drafting and Design
  - INDT 2613 Industrial Fluid Power
  - INDT 3103 Advanced Electricity and Electronics
- Addition of Approved Electives
  - INDT 2323 Welding Technology
  - INDT 2343 Parametric Modeling for 3D Design
  - INDT 3543 Process Equipment and Instrumentation
  - INDT 3683 CNC Machining Processes
  - INDT 4213 Energy Source and Power
  - INDT 4463 Manufacturing Technology & Processes II
- Addition of 6 hours of Additional Electives
  - Completion of any two INDT 3000 + Level courses

***Manufacturing and Maintenance Management Concentration:***

- Addition of the following courses into Manufacturing and Maintenance Management Concentration Required Courses
  - INDT 3103 Advanced Industrial Electricity and Electronics
  - INDT 2343 Parametric Modeling for 3D Design
  - INDT 3683 CNC Machining Processes
  - INDT 3843 Rapid Prototyping
  - INDT 4233 Maintenance Management

- Addition of Approved Electives
  - INDT 2323 Welding Technology
  - INDT 2353 Industrial Computer Aided Drafting & Design
  - INDT 3543 Process Equipment & Instrumentation
  - INDT 4103 Industrial Control Systems
  - INDT 4203 Automated Systems I
  - INDT 4303 Robotics
  - INDT 4543 Process Troubleshooting
- Addition of 6 hours of Additional Electives
  - Completion of any two INDT 3000+ Level Courses

***Industrial Coatings:***

- Addition of concentration Industrial Coatings
- Addition of the following courses into Industrial Coatings Concentration Required Courses
  - INDT 2613 Industrial Fluid Power
  - INDT 3103 Advanced Electricity & Electronics
  - INDT 3753 Introduction to Industrial Coatings
  - INDT 3854 Powder Coatings
  - INDT 3864 Liquid Coatings
  - INDT 4103 Industrial Controls
  - INDT 4303 Industrial Robotics
  - INDT 4373 Lean Six Sigma
- Addition of Approved Electives
  - INDT 2353 Industrial Computer Aided Drafting & Design
  - INDT 3843 Rapid Prototyping
  - INDT 3873 E-Coatings
  - INDT 4233 Maintenance Management
  - INDT 4243 System Design for Industrial Finishing Applications
  - INDT 4263 Manufacturing Technology and Processes I
  - INDT 4463 Manufacturing Technology and Processes II
  - INDT 4403 Automated Systems II
- Addition of 6 hours of Additional Electives
  - Completion of any two INDT 3000+ Level courses

***Industrial Packaging:***

- Addition of concentration Industrial Packaging
- Addition of the following courses into Industrial Packaging Concentration Required Courses
  - INDT 2343 Parametric Modeling for 3D Design
  - INDT 3703 Principles of Packaging
  - INDT 3713 Packaging Materials
  - MKT 3323 International Logistics
  - INDT 4203 Automated Systems I

- INDT 4373 Lean Six Sigma
- INDT 4703 Sustainable Packaging
- Addition of Approved Electives
  - INDT 2353 Industrial Computer Aided Drafting and Design
  - INDT 2613 Industrial Fluid Power
  - INDT 3843 Rapid Prototyping
  - INDT 4233 Maintenance Management
  - INDT 4263 Manufacturing Technology and Processes I
  - INDT 4403 Automated Systems II
  - INDT 4463 Manufacturing Technology & Processes II
  - INDT 4703 Healthcare and Food Packaging
- Addition of 6 hours of Additional Electives
  - Completion of any two INDT 3000+ Level courses

***Process Technology:***

- Addition of concentration Process Technology
- Addition of the following courses into Process Technology Concentration Required Courses
  - INDT 2323 Welding Technology
  - INDT 2353 Industrial Computer Aided Drafting and Design
  - INDT 2613 Fluid Power
  - INDT 3533 Intro to Process Technology
  - INDT 3543 Process Equipment & Instrumentation
  - INDT 4233 Maintenance Management
  - INDT 4533 Process Systems and Operation
  - INDT 4543 Process Troubleshooting
- Addition of Approved Electives
  - INDT 2343 Parametric Modeling for 3D Design
  - INDT 3323 Welding Technology II
  - INDT 4553 Oil and Gas Production
  - INDT 3103 Advanced Electricity & Electronics
  - INDT 4103 Industrial Control Systems
  - INDT 4303 Industrial Robotics
- Addition of 6 hours of Additional Electives
  - Completion of any two INDT 3000 + Level courses

**Catalog Description (Old):**

The industrial technology curriculum is designed for students who want to prepare for employment leading to supervisory and management positions in the production, automation, maintenance or logistics areas of industry. The role of the Industrial Technology graduate is that of a facilitator of ideas from senior management to the production floor. Successful completion of the four-year curriculum would provide an excellent background in science, mathematics, design, and human relations. This is coupled with the practical use of both manual and automated machinery and the associated tools, as well as knowledge of industrial manufacturing processes, materials and logistics.

To this extent the curriculum is divided into three concentrations:

- Industrial Automation
- Industrial Distribution
- Manufacturing & Maintenance Management

These concentrations are designed to give students a specialization that they can take into the workforce and build upon throughout their industrial career. Graduates should quickly become proficient in both the supervisory and administrative roles of dealing with personnel, and depending upon the concentration selected, the graduate should become adept in the various aspects of the manufacture, distribution and automation of industrial products and processes. Employment opportunities are excellent for this degree.

The MSU Bulletin is not the final source of information. Departmental advisement is critically important for the course sequence and selection. Students should always get advisement and approval from their MSU advisor for course scheduling.

Upper division courses (3000 level and up) must be taken at a senior college or university. See a faculty advisor for prerequisites and proper course sequence.

NOTE: This curriculum lends itself well to a minor in Business Administration or Marketing.

**Catalog Description (New):**

As industry evolves, so should education to meet new demands. The Industrial Technology program works with industry to meet their needs and close skills gaps seen in various industries. The Industrial Technology curriculum encourages hands on learning in the classroom utilizing technologies found in industry. The curriculum is designed to provide a well-rounded study of various areas of industry including maintenance, programming, design, safety, systems analysis, and communication and troubleshooting skills. The Industrial Technology program is a great fit for students who like working with their hands and learning by doing. 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 on all campuses.

To this extent, the following concentrations are available:

- Maintenance and Manufacturing Management
- Industrial Automation
- *Industrial Packaging*
- *Industrial Coatings*

- *Process Technology*

These concentrations are designed to give students a specialization that they can take into the workforce and build upon throughout their industrial career. Graduates should quickly become proficient in both the supervisory and administrative roles of dealing with personnel, and depending upon the concentration selected, the graduate should become adept in the various aspects of the manufacture, automation, coatings, design, safety of industrial products and systems analysis. Employment opportunities are excellent for this degree.

The MSU Bulletin is not the final source of information. Departmental advisement is critically important for the course sequence and selection. Students should always get advisement and approval from their MSU advisor for course scheduling.

Upper division courses (3000 level and up) must be taken at a senior college or university. See a faculty advisor for prerequisites and proper course sequence.

NOTE: This curriculum lends itself well to a minor in Business Administration or Marketing.

### Curriculum Outline Table:

CURRENT Degree Description	PROPOSED Degree Description
Degree: Bachelor of Science Major: Industrial Technology Concentration: Manufacturing and Maintenance Management, Industrial Automation, <i>Industrial Distribution</i>	Degree: Bachelor of Science Major: Industrial Technology Concentration: Manufacturing and Maintenance Management, Industrial Automation, <b>Industrial Packaging, Industrial Coatings, Process Technology</b>
<p><i>The industrial technology curriculum is designed for students who want to prepare for employment leading to supervisory and management positions in the production, automation, maintenance or logistics areas of industry. The role of the Industrial Technology graduate is that of a facilitator of ideas from senior management to the production floor. Successful completion of the four-year curriculum would provide an excellent background in science, mathematics, design and human relations. This is coupled with the practical use of both manual and automated machinery and the associated tools, as well as knowledge of industrial manufacturing processes, materials and logistics.</i></p> <p><i>To this extent the curriculum is divided into three concentrations:</i></p> <ul style="list-style-type: none"> <li>• <i>Industrial Automation</i></li> <li>• <i>Industrial Distribution</i></li> <li>• <i>Manufacturing &amp; Maintenance Management</i></li> </ul> <p><i>These concentrations are designed to give students a specialization that they can take into the workforce and</i></p>	<p><b>As industry evolves, so should education to meet new demands. The Industrial Technology program works with industry to meet their needs and close skills gaps seen in various industries. The Industrial Technology curriculum encourages hands on learning in the classroom utilizing technologies found in industry. The Industrial Technology program is a great fit for students who like working with their hands and learning by doing. 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 on all campuses.</b></p> <p>To this extent, the curriculum is divided into five concentrations:</p> <ul style="list-style-type: none"> <li>• <b>Industrial Automation</b></li> <li>• <b>Industrial Coatings</b></li> <li>• <b>Industrial Packaging</b></li> <li>• <b>Manufacturing &amp; Maintenance Management</b></li> <li>• <b>Process Technology</b></li> </ul>

*build upon throughout their industrial career. Graduates should quickly become proficient in both the supervisory and administrative roles of dealing with personnel, and depending upon the concentration selected, the graduate should become adept in the various aspects of the manufacture, distribution and automation of industrial products and processes. Employment opportunities are excellent for this degree.*

*The MSU Bulletin is not the final source of information. Departmental advisement is critically important for the course sequence and selection. Students should always get advisement and approval from their MSU advisor for course scheduling.*

*Upper division courses (3000 level and up) must be taken at a senior college or university. See a faculty advisor for prerequisites and proper course sequence.*

*NOTE: This curriculum lends itself well to a minor in Business Administration or Marketing.*

**The curriculum is designed to provide a well-rounded study of various areas of industry including maintenance, programming, design, safety, systems analysis, and communication and troubleshooting skills.** Employment opportunities are excellent for this degree.

The MSU Bulletin is not the final source of information. Departmental advisement is critically important for the course sequence and selection. Students should always get advisement and approval from their MSU advisor for course scheduling.

Upper division courses (3000 level and up) must be taken at a senior college or university. See a faculty advisor for prerequisites and proper course sequence.

**NOTE: This curriculum lends itself well to a minor in Business Administration or Marketing.**

#### CONCENTRATION DESCRIPTION

##### **Industrial Automation**

The Industrial Automation concentration is designed for students who wish to enter a career in the automation of manufacturing processes. This concentration is concerned with fixed automation, robotics, and the troubleshooting of automated systems and their role in the manufacturing environment.

#### CONCENTRATION DESCRIPTION

##### **Industrial Automation**

The Industrial Automation concentration is designed for students who wish to enter a career in the automation of manufacturing processes. This concentration is concerned with fixed automation, robotics, and the troubleshooting of automated systems and their role in the manufacturing environment.

<b>CURRENT CURRICULUM OUTLINE</b>	<b>Required Hours</b>
<b>English (General Education):</b>	<b>6</b>
EN 1103 English Composition I	
EN 1113 English Composition II	
<b>Fine Arts (General Education):</b>	<b>3</b>
Any Gen Ed Course	
<b>Natural Sciences:</b>	<b>8</b>
CH 1043 or higher	
CH 1051 or higher	
PH 1013 or higher	
PH 1011 or higher	
<b>Extra Science:</b>	<b>3</b>

<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
<b>English (General Education):</b>	<b>6</b>
EN 1103 English Composition I	
Or EN 1104 Expanded English Composition I	
EN 1113 English Composition II	
Or EN 1173 Accelerated Comp II	
<b>Fine Arts (General Education):</b>	<b>3</b>
Any Gen Ed Course	
<b>Natural Sciences:</b>	<b>8</b>
CH 1043 & CH 1051 or higher	
PH 1013 & PH 1011 or higher	

CH 1213 or higher			
PH 1023 or higher			
<b>Math (General Education):</b>	9	<b>Math (General Education):</b>	9
MA 1323 or higher		<b>MA 1313 or higher</b>	
MA1613 or higher		MA1613 or higher	
BQA/MA/ST 2113		BQA/MA/ST 2113	
<b>Humanities (General Education):</b>	6	<b>Humanities (General Education):</b>	6
Any Gen Ed Course		Any Gen Ed Course	
<b>Social/Behavioral Sciences (General Education):</b>	6	<b>Social/Behavioral Sciences (General Education):</b>	6
Any Social/Behavioral Gen Ed Course		Any Social/Behavioral Gen Ed Course	
<b>MAJOR CORE COURSES</b>	59	<b>MAJOR CORE COURSES</b>	45
INDT 1203 Industrial Drafting & Print Reading		<i>Introductory Skills</i>	18
INDT 1814 Basic Industrial Electricity & Electronics		<b>INDT 1203 Industrial Drafting and Print Reading</b>	
INDT 2113 Introduction to PLC Programming		<b>INDT 1813 Basic Industrial Electricity and Electronics</b>	
INDT 2123 Introduction to CNC Programming		INDT 2113 Introduction to PLC Programming	
INDT 2323 Welding Technology		INDT 2123 Introduction to CNC Programming	
INDT 2613 Industrial Fluid Power		INDT 3223 Industrial Materials	
INDT 3044 Industrial Safety		<b>INDT 3813 Technical Writing and Presentation for Industry</b>	
INDT 3063 Industrial Human Relations		<i>Management Skills</i>	9
INDT 3104 Advanced Industrial Electricity & Electronics		INDT 3063 Industrial Human Relations	
INDT 3223 Industrial Materials		<i>INDT 3373 Forecast and Cost Modeling</i>	
INDT 3243 Industrial Metrology		<b>Management Skills requirement is satisfied by successful completion of one of the following:</b>	
INDT 3343 3D Modeling for Manufacturing		<b>ACC 2013 Principles of Financial Accounting</b>	
INDT 3363 Motion and Time Study		<b>BL 2413 Legal Environment of Business</b>	
INDT 3373 Forecast and Cost Modeling		<b>MGT 3823 Responsible Leadership</b>	
INDT 3683 CNC Machine Metal Processes		or	
INDT 3813 Writing for Industry		<b>Any MGT 3000+ Level course with the approval from advisor and instructor</b>	
INDT 4213 Energy Sources and Power Technology		<i>General Knowledge</i>	16

<p>INDT 4224 Quality Assurance</p> <p>INDT 4801 Senior Seminar</p> <p>Oral Communication Requirement: Satisfied by successful completion of INDT 3044, INDT 3063, INDT 3363, and INDT 3813</p> <p>Writing Requirement: Satisfied by successful completion of INDT 3063 and INDT 3813</p> <p>Computer Literacy: Satisfied by successful completion of INDT 1203, INDT 3343, INDT 3373, INDT 3813, and INDT 4801</p>	<p>INDT 2323 Industrial Materials</p> <p><b>INDT 3043 Industrial Safety</b></p> <p>INDT 3243 Industrial Metrology</p> <p>INDT 3363 Motion &amp; Time Study</p> <p>INDT 4224 Quality Assurance</p> <p><b>Seminars</b> 3</p> <p><b>INDT 1101 Introduction to Industrial Technology</b></p> <p><b>INDT 3101 Junior Seminar</b></p> <p>INDT 4801 Senior Seminar</p> <p>Oral Communication Requirement: Satisfied by successful completion of INDT 3044, INDT 3063, INDT 3363, and INDT 3813</p> <p>Writing Requirement: Satisfied by successful completion of INDT 3063 and INDT 3813</p> <p>Computer Literacy: Satisfied by successful completion of INDT 1203, INDT 3343, INDT 3373, INDT 3813, and INDT 4801</p>
<p>Major Core Courses Total 59</p>	<p>Major Core Courses Total 43</p>
<p><b>CONCENTRATION COURSES</b> 24</p> <p><u>Industrial Automation</u></p> <p><i>ACC 2013 Principles of Financial Accounting</i></p> <p><i>BL 2413 The Legal Environment of Business</i></p> <p>INDT 4103 Industrial Control Systems</p> <p>INDT 4203 Automated Systems I</p> <p>INDT 4233 Maintenance Management</p> <p>INDT 4303 Industrial Robotics</p> <p>INDT 4403 Automated Systems II</p> <p><i>INDT 4343 Computer Aided Drafting &amp; Design</i></p> <p><i>INDT 4373 Lean Six Sigma</i></p> <p><i>INDT 4263 Manufacturing Technology and Processing I</i></p>	<p><b>CONCENTRATION CORE COURSES</b> 24</p> <p><u>Industrial Automation</u></p> <p><b>INDT 2353 Computer Aided Drafting and Design</b></p> <p><b>INDT 2613 Industrial Fluid Power</b></p> <p><b>INDT 3103 Advanced Electricity and Electronics</b></p> <p>INDT 4103 Industrial Control Systems</p> <p>INDT 4203 Automated Systems I</p> <p>INDT 4233 Maintenance Management</p> <p>INDT 4303 Industrial Robotics</p> <p>INDT 4403 Automated Systems II</p>
<p>Concentration Required Courses Total 24</p>	<p>Concentration Required Courses Total 24</p>

	<p><b>CONCENTRATION ELECTIVE COURSES (Choose 3)</b> 9</p> <p>INDT 2323 Welding Technology</p> <p>INDT 2343 Parametric Modeling for 3D Design</p> <p>INDT 3543 Process Equipment and Instrumentation</p> <p>INDT 3683 CNC Machining Processes</p> <p>INDT 4213 Energy Source and Power</p> <p>INDT 4263 Manufacturing Technology and Processes</p> <p>INDT 4463 Manufacturing Technology &amp; Processes II</p> <p><b>ADDITIONAL ELECTIVES</b> 6</p> <p>Additional Electives requirement is satisfied by successful completion of any INDT 3000+ Level course</p>						
Total Hours 124	Total Hours 123						
	<p><b>CONCENTRATION DESCRIPTION</b></p> <p><b>Manufacturing and Maintenance Management</b></p> <p>The Manufacturing and Maintenance Management concentration is designed for students who want to enter a career in the manufacturing sector. This concentration is concerned with the management, maintenance and day-to-day operation and improvement of manufacturing processes.</p> <table border="1" data-bbox="812 1297 1435 1360"> <thead> <tr> <th data-bbox="812 1297 1247 1360"><b>PROPOSED CURRICULUM OUTLINE</b></th><th data-bbox="1247 1297 1435 1360"><b>Required Hours</b></th></tr> </thead> <tbody> <tr> <td data-bbox="812 1360 1247 1430"> <b>CONCENTRATION CORE COURSES</b> </td><td data-bbox="1247 1360 1435 1430">24</td></tr> <tr> <td data-bbox="812 1430 1247 1925"> <p><u>Manufacturing and Maintenance Management</u></p> <p>INDT 2343 Parametric Modeling for 3D Design</p> <p>INDT 3103 Advanced Industrial Electricity &amp; Electronics</p> <p>INDT 3683 CNC Machining Processes</p> <p>INDT 3843 Rapid Prototyping</p> <p>INDT 4233 Maintenance Management</p> <p>INDT 4263 Manufacturing Technology and Processes I</p> <p>INDT 4373 Lean Six Sigma</p> </td><td data-bbox="1247 1430 1435 1925"></td></tr> </tbody> </table>	<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>	<b>CONCENTRATION CORE COURSES</b>	24	<p><u>Manufacturing and Maintenance Management</u></p> <p>INDT 2343 Parametric Modeling for 3D Design</p> <p>INDT 3103 Advanced Industrial Electricity &amp; Electronics</p> <p>INDT 3683 CNC Machining Processes</p> <p>INDT 3843 Rapid Prototyping</p> <p>INDT 4233 Maintenance Management</p> <p>INDT 4263 Manufacturing Technology and Processes I</p> <p>INDT 4373 Lean Six Sigma</p>	
<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>						
<b>CONCENTRATION CORE COURSES</b>	24						
<p><u>Manufacturing and Maintenance Management</u></p> <p>INDT 2343 Parametric Modeling for 3D Design</p> <p>INDT 3103 Advanced Industrial Electricity &amp; Electronics</p> <p>INDT 3683 CNC Machining Processes</p> <p>INDT 3843 Rapid Prototyping</p> <p>INDT 4233 Maintenance Management</p> <p>INDT 4263 Manufacturing Technology and Processes I</p> <p>INDT 4373 Lean Six Sigma</p>							

INDT 4463 Manufacturing Technology and Processes II	
Concentration Required Courses Total	24
<b>CONCENTRATION ELECTIVE COURSES (Choose 3)</b>	9
INDT 2323 Welding Technology	
INDT 2353 Industrial Computer Aided Drafting & Design	
INDT 3323 Welding Technology II	
INDT 3543 Process Equipment & Instrumentation	
INDT 4103 Industrial Control Systems	
INDT 4203 Automated Systems I	
INDT 4303 Robotics	
INDT 4543 Process Troubleshooting	
<b>ADDITIONAL ELECTIVES</b>	6
Additional Electives requirement is satisfied by successful completion of any INDT 3000 + Level course.	
Total Hours	123
<p>CONCENTRATION DESCRIPTION</p> <p><b>Industrial Coatings</b></p> <p>The Industrial Coatings concentration provides classroom instruction and hands-on, practical experience to prepare students for employment in the industrial coatings field. The materials prepare individuals to prepare and treat surfaces, apply various coating materials, and analyze quality at all stages of the process. The concentration emphasizes safe work practices, quality surface creation and preparation, and effective coatings while learning about coating equipment, application, and properties.</p>	
<b>PROPOSED CURRICULUM OUTLINE</b>	Required Hours
<b>CONCENTRATION CORE COURSES</b>	24
<u>Industrial Coatings</u>	
INDT 2613 Industrial Fluid Power	
INDT 3103 Advanced Electricity & Electronics	
INDT 3753 Introduction to Industrial Coatings	
INDT 3853 Powder Coatings	
INDT 3863 Liquid Coatings	

INDT 4103 Industrial Controls	
INDT 4303 Industrial Robotics	
INDT 4373 Lean Six Sigma	
Concentration Required Courses Total	24
<b>CONCENTRATION ELECTIVE COURSES (Choose 3)</b>	
	9
INDT 2323 Welding Technology	
INDT 2343 Parametric Modeling for 3D Design	
INDT 2353 Industrial Computer Aided Drafting and Design	
INDT 3873 E-Coatings	
INDT 4243 System Design for Industrial Finishing Applications	
INDT 4263 Manufacturing Technology and Processes I	
INDT 4463 Manufacturing Technology and Processes II	
<b>ADDITIONAL ELECTIVES</b>	6
Additional Electives requirement is satisfied by successful completion of any INDT 3000 + Level course.	
Total Hours	123
<b>CONCENTRATION DESCRIPTION</b>	
<b>Industrial Packaging</b>	
The Industrial Packaging concentration provides classroom instruction and hands-on, practical experience to prepare students for employment in the packaging development field. The materials prepare individuals to identify the needs and design sustainable, effective packaging products. The concentration emphasizes design principles, material characteristics, and sustainable products.	
<b>PROPOSED CURRICULUM OUTLINE</b>	<b>Required Hours</b>
<b>CONCENTRATION CORE COURSES</b>	24
<u>Industrial Packaging</u>	
INDT 2343 Parametric Modeling for 3D Design	
INDT 3703 Principles of Packaging	
INDT 3713 Packaging Materials	
MKT 3323 International Logistics	
INDT 4103 Industrial Controls	

INDT 4203 Automated Systems I	
INDT 4373 Lean Six Sigma	
INDT 4703 Sustainable Packaging	
<b>CONCENTRATION ELECTIVE COURSES (Choose 3)</b>	9
INDT 2353 Computer Aided Drafting and Design	
INDT 2613 Industrial Fluid Power	
INDT 3843 Rapid Prototyping	
INDT 4233 Maintenance Management	
INDT 4263 Manufacturing Technology and Processes I	
INDT 4303 Industrial Robotics	
INDT 4403 Automated Systems II	
INDT 4463 Manufacturing Technology & Processes II	
INDT 4703 Healthcare & Food Packaging	
<b>ADDITIONAL ELECTIVES</b>	6
Additional Electives requirement is satisfied by successful completion of any INDT 3000 + Level course.	
Total Hours	123
<b>CONCENTRATION DESCRIPTION</b>	
<b>Process Technology</b>	
The Process Technology concentration provides classroom instruction and hands-on, practical experience to prepare students for employment, and chemical/petrochemical products. The concentration emphasizes safe and efficient work practices while learning about the equipment, instrumentation, systems, and operations related to chemical processing.	
<b>PROPOSED CURRICULUM OUTLINE</b>	Required Hours
<b>CONCENTRATION CORE COURSES</b>	24
<u>Process Technology</u>	
INDT 2353 Industrial Computer Aided Drafting and Design	
INDT 2323 Welding Technology	
INDT 2613 Fluid Power	
INDT 3533 Intro to Process	

	Technology	
	INDT 3543 Process Equipment & Instrumentation	
	INDT 4233 Maintenance Management	
	INDT 4533 Process Systems & Operations	
	INDT 4543 Process Troubleshooting	
	CONCENTRATION ELECTIVE COURSES (Choose 3)	9
	INDT 2343 Parametric Modeling for 3D Design	
	INDT 3103 Advanced Electricity & Electronics	
	INDT 3323 Welding Technology II	
	INDT 4103 Industrial Control Systems	
	INDT 4303 Industrial Robotics	
	INDT 4553 Oil and Gas Production	
	ADDITIONAL ELECTIVES	6
	Additional Electives requirement is satisfied by successful completion of any INDT 3000 + Level course.	
	Total Hours	122

**Justification and Student Learning Outcomes:**

The industrial technology faculty have proposed these modifications after reviewing the curriculum and obtaining feedback from the industrial technology advisory board, industry leaders, and graduates of the program who are in senior management/supervisory positions. The modifications to the industrial technology core have been made to allow for better sequencing of courses so that the student can build upon the knowledge gained in lower-level classes and to allow students to create personalized pathways to aid them in developing the skills needed for their chosen career fields. Modifications were also made to the concentration areas to give industrial technology students more exposure to issues that are pertinent to their chosen concentration area, thus giving them more opportunities to gain initial employment, as well as career development.

The Distribution concentration was removed due to lack of interest by students. While this concentration has been eliminated, some skills and knowledge bases have been redistributed among the remaining two and three new concentrations.

The Industrial Coatings, Industrial Packaging, and Process Technology concentrations have been developed as a response to inquiries from industry as well as identified education and skills gaps found in certain industries. The industry advisory board requested a packaging and paint concentration to aid in filling skills gaps found in industry. There are no similar concentrations that focus on the specified areas of industry that was requested by the industry advisory board.

The Industrial Packaging program was created to develop skilled packaging designers for companies who have specialized packaging requirements. These students will be able to develop packaging from material selection to creation to how packaging affects environmental concerns. Skills learned in the concentration can be applied to multiple industries that require design, testing, and logistics skills.

The Industrial Coatings program was created to develop skilled employees from surface prep, coating choice and mix, to application and quality inspections. These students will be able to provide theory and practical knowledge to any industry field where a coating is required to provide safety, identification, or extend the use of a product.

The Process Technology concentration was developed to fill a gap in education for those working in the field. While programs exist in the junior/community college level of academia, there is no Bachelor's degree offered in the state. This concentration was created to provide support and a more skilled workforce for the oil and gas industry. Skills learned in the Process Technology concentration can be applied to a plethora of industries that require a systems analysis approach to product development.

Currently, there is a major shortfall of technical employees at both the state and national levels. These proposed changes will give graduating students the ability to find employment in high quality technical positions. To meet the demand for technical employees worldwide, the faculty of the Industrial Technology program agree the new concentrations should be offered online with the two previously approved concentrations. By offering the courses online, it will provide an opportunity for the program to reach potential students around the world.

The target audience for the online program would primarily be those already working in industry who are looking to take the next step in their career or who want to change career paths. These students need the flexibility an online degree program offers to succeed. Another target population are potential students who have other obligations or restrictions that prohibit them from attending classes face to face. The programs offered are not readily available online across the nation.

The modifications do not duplicate any programs currently in the system. The current program has a good cross-section of students, and this is anticipated to remain the same.

The Industrial Technology program at Mississippi State University has a very high placement rate, and salaries are commensurate with those of graduating industrial engineers. As the demand for more highly qualified technicians increases, the placement rates and salaries expected to increase.

The learning outcomes of this program are that students should be able to facilitate ideas from senior management to the production floor. They could also be able to manage the day-to-day operations, maintenance, and production troubleshooting of complex industrial equipment and systems. The graduate student should also be able to make recommendations on adaptation, deletion, or replacement/capital investment of equipment to aid the manufacturing process.

**Support:**

Accompanying this degree program modification is a letter of support signed by all the faculty in the industrial technology program. The faculty unanimously voted to support the proposed degree program changes for the industrial technology curriculum.

**Proposed 4-Letter Abbreviation:**


The proposed 4-letter abbreviation for the program is – INDT

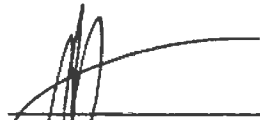
**Effective Date:**


The proposed effective date is Fall 2022


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

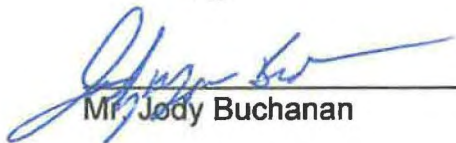
Industrial Technology Program Members:

 2/3/22  
Ms. Lara Threet Date

 2/3/22  
Dr. John Wyatt Date

 2/4/2022  
Mr. Mickey Giordano Date

 2/3/22  
Mrs. Jenn Dupré Date

 2/3/2022  
Mr. Jody Buchanan Date

 2/3/2022  
Dr. Swapnil Patole Date

 2/4/2022  
Dr. Kay Morgan Date



**MISSISSIPPI STATE**  
**UNIVERSITY™**

Richard C. Adkerson School of Accountancy

P.O. Box EF  
Mississippi State, MS 39762-5661

P. 662.325.3710

F. 662.325.1646

[business.msstate.edu/accounting](http://business.msstate.edu/accounting)

February 7, 2022

To Whom it May Concern:

The Adkerson School of Accountancy does not expect an issue in providing ACC 2013 Financial Accounting Principles as an elective option to the three concentrations with Industrial Technology.

Sincerely,

*Shawn Mauldin*

Shawn Mauldin  
Director  
Adkerson School of Accountancy



**MISSISSIPPI STATE**  
UNIVERSITY™

**Management & Information Systems  
Department  
College of Business**

P.O. Box 9581  
Mississippi State, MS 39762  
P. 662.325.3928

**To:** University Committee on Courses and Curricula

**From:** Head, Management & Information Systems Department  
Starkville Campus

**Date:** February 4, 2022

This letter is to express the support of the Department of Management & Information Systems (MIS) for the inclusion of MGT 3823: Responsible Leadership as an elective option in the curriculum for Industrial Technology students. As discussed with the Program Coordinator Lara Threet, students seeking this elective will need approval from their advisor and the instructor.

Thank you,

*Laura E. Markin*



**MISSISSIPPI STATE**  
UNIVERSITY

**COLLEGE OF BUSINESS**

Department of Marketing, Quantitative Analysis & Business Law

P.O. Box 9582

324 McCool Hall

Mississippi State, MS 39762

P. 662.325.3163

F. 662.325.7012

To: University Committee on Courses and Curricula

From: **Melissa Moore, Professor of Marketing and Department Head, Marketing, Quantitative Analysis and Business Law Department**

Date: February 4, 2022

The department of Marketing, Quantitative Analysis and Business Law supports the addition of MKT 3323 (International Logistics) as a required course and BL 2413 (Legal Environment of Business) as an elective course as part of the newly created concentration, Industrial Packaging. If you have any questions, or need any additional information, please contact Dr. Melissa Moore at [mmoore@business.msstate.edu](mailto:mmoore@business.msstate.edu).

Dr. Melissa Moore, Professor of Marketing and Department Head