A MEMORANDUM

DATE: May 16, 2019

TO: Academic Deans Council

FROM: Dr. Dana Pomykal Franz
UCCC Chair

RE: Change Notice 11

Listed below are curriculum change proposals which have been recommended by the University Committee Courses and Curricula. Under current procedure, members of the Academic Deans Council may question the approval of these proposals at any time prior to 5:00 p.m. on May 29, 2019 by contacting Dr. Dana Pomykal Franz (5-7117) 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

Modification	FDM 2553	**Approved**	**FROM: FDM 2553 Introduction to Fashion Industry.** (3). Three hours lecture. A survey of the entire fashion industry as it relates to fashion design and merchandising. **TO: FDM 2553 Introduction to Merchandising.** (3). Three hours lecture. A survey of the entire consumer goods industry as it relates to merchandising. 30 Char: Intro to Merchandising Effective: Summer 2019
Modification	FDM 3553	**Approved**	**FROM: FDM 3553 Fashion Retail Pricing and Inventory Management.** (3). (Prerequisites: FDM 2553 and ST 2113 or MA 2113 or BQA 2113 or consent of instructor). Two hours lecture. Two hours laboratory. Specific problems, procedures and practices in fashion retailing. **TO: FDM 3553 Merchandise Retail Pricing and Inventory Management.** (3). (Prerequisites: FDM 2553 and ST 2113 or MA 2113 or BQA 2113 or consent of instructor). Two hours lecture. Two hours laboratory. Specific problems, procedures and practices in merchandise pricing and inventory management. 30 Char: Merchandise Retail Pricing Effective: Summer 2019
+Online/Distance	FDM 4513/6513	**Approved**	**FDM 4513/6513 Approval to Offer Online Campus 5 for Fashion Consumer Behavior.** Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2019
Modification	FDM 4693/6693	**Approved**	**FROM: FDM 4693/6693 Digital Fashion Retailing.** (3). **TO: FDM 4693/6693 Digital Merchandising.** (3). 30 Char: Digital Merchandising Effective: Summer 2019

Modification	GA 1111	**Approved**	**FROM: GA 1111 Survey of Agriculture.** (1). One hour lecture. A study of the over all function, organization and operation of the agricultural industry in the United States and the world. **TO: GA 1111 Survey of Agriculture.** (1). One hour lecture. A study of the overall function, organization and operation of the agricultural industry in the United States and the world. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 020101 30 Char: Survey of Agriculture Effective: Summer 2019
+Online/Distance	HDFS 4853/6853	**Approved**	**HDFS 4853/6853 Approval to Offer Online Campus 5 for The Family: A Human Ecological Perspective.** Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2019
Addition	PSS 4733/6733	**Approved**	**PSS 4733/6733 Ag. Flight Technologies I.** (3). (Prerequisites: PSS 4383/6383 OR Instructor Approval). Three hours lecture/laboratory. The course instructs students in Small Unmanned Aerial Systems (sUAS) manual flight skills and the FAA Remote Pilot certification exam materials, and is a prerequisite course for advanced autonomous flight training (PSS 4743/6743). Method of Instruction: B Method of Delivery: F & O Campus: 1 CIP: 011102 30 Char: Ag. Flight Technologies I Effective: Summer 2019
Addition	PSS 4743/6743	**Approved**	**PSS 4743/6743 Ag. Flight Technologies II.** (3). (Prerequisites: PSS 4733/6733 Ag. Flight Tech. I AND Instructor Approval). Three hours lecture. Enrolled students attend a week-long advanced autonomous flight workshop at Mississippi State University, Starkville campus. At week's end, students take the FAA Part 107 Remote Pilot Certification. Method of Instruction: C Method of Delivery: F Campus: 1 CIP: 011102 30 Char: Ag. Flight Technologies II Effective: Summer 2019

ARCHITECTURE, ART AND DESIGN

Technical Change BCS 1116	**Approved**	**FROM: BCS 1116 Building Construction Studio A.** (6). (Prerequisites: MA 1313 and MA 1323).Twelve hours laboratory. Introduction to construction materials and methods, construction drawing and modeling, building systems, project life cycles and management, and professional thinking and action. **TO: BCS 1116 Building Construction Studio A.** (6). (Prerequisites: MA 1323 or ACT Math sub-score 24). Twelve hours laboratory. Introduction to construction materials and methods, construction drawing and modeling, building systems, project life cycles and management, and professional thinking and action. Effective: Fall 2019
Technical Change BCS 2116	**Approved**	**FROM: BCS 2116 Building Construction Studio 1.** (6). (Prerequisite: BCS 1126). Six hours laboratory. In depth examination of building construction materials and methods, systems, construction drawing and details, and construction finishes. **TO: BCS 2116 Building Construction Studio 1.** (6). (Prerequisite: BCS 1126). Twelve hours laboratory. In depth examination of building construction materials and methods, systems, construction drawing and details, and construction finishes. Effective: Fall 2019
Technical Change BCS 3116	**Approved**	**FROM: BCS 3116 Building Construction Studio 3.** (6). (Prerequisite: BCS 2226). Six hours laboratory. In depth study health and safety, project management, construction management, plant and equipment management, logistics and operations management, and building pathology. **TO: BCS 3116 Building Construction Studio 3.** (6). (Prerequisite: BCS 2226). Twelve hours laboratory. In depth study health and safety, project management, construction management, plant and equipment management, logistics and operations management, and building pathology. Effective: Fall 2019

Technical Change	BCS 3126	**Approved**	**FROM: BCS 3126 Building Construction Studio 4.** (6). (Prerequisite: BCS 3116). Six hours laboratory. In-depth evaluation of the principles and applications of construction productivity, estimating and bidding procedures, cost alternatives, scheduling, sequencing, budgeting and project cashflow management. **TO: BCS 3126 Building Construction Studio 4.** (6). (Prerequisite: BCS 3116). Twelve hours laboratory. In-depth evaluation of the principles and applications of construction productivity, estimating and bidding procedures, cost alternatives, scheduling, sequencing, budgeting and project cashflow management. Effective: Fall 2019
Technical Change	BCS 3914	**Approved**	**FROM: BCS 3914 Structures II.** (4). (Prerequisite: ARC 3904 or BCS 3904). Three hours lecture. Three hours laboratory. Design and analysis of structural elements as part of frames and other structural systems. (Same as ARC 3914). **TO: BCS 3914 Structures II.** (4). (Prerequisite: ARC 3904 or BCS 3904). Three hours lecture. Two hours laboratory. Design and analysis of structural elements as part of frames and other structural systems. (Same as ARC 3914). Effective: Fall 2019
Technical Change	BCS 4116	**Approved**	**FROM: BCS 4116 Building Construction Studio 5.** (6). (Prerequsite: BCS 3126). [sic] Six hour laboratory. In-depth evaluation of the legal and contractual environment for construction activities/projects. Emphasis on specifications;dispute [sic] resolution; construction contracts and procurement systems; and project delivery modeling **TO: BCS 4116 Building Construction Studio 5.** (6). (Prerequisite: BCS 3126). Twelve hours laboratory. In-depth evaluation of the legal and contractual environment for construction activities/projects. Emphasis on specifications; dispute resolution; construction contracts and procurement systems; and project delivery modeling. Effective: Fall 2019

Technical Change	BCS 4126	**Approved**	**FROM: BCS 4126 Building Construction Studio 6.** (6). (Prerequisite: BCS 4116). Six hours laboratory. In-depth study of project controls, risk management, strategic management, construction accounting, facilities and maintenance management, and international construction and contracting. **TO: BCS 4126 Building Construction Studio 6.** (6). (Prerequisite: BCS 4116). Twelve hours laboratory. In-depth study of project controls, risk management, strategic management, construction accounting, facilities and maintenance management, and international construction and contracting. Effective: Fall 2019

BUSINESS

Modification	BIS 8213	**Approved**	**FROM: BIS 8213 Advanced Systems Analysis and Design.** (3). (Prerequisite or co-requisite: BIS 8113 or any 3 hours of computer-related coursework). Three hours lecture. Analysis/design of computer-based information systems using structured methodologies and tools. Emphasis on project management, requirements analysis, business data analysis, logical system design, vendor relations, and quality assurance. **TO: BIS 8213 Secure Systems Analysis and Design.** (3). (Prerequisite or co-requisite: BIS 8113 or any 3 hours of computer-related coursework). Three hours lecture. Analysis/design of secure computer-based information systems using structured methodologies. Emphasis on functional and security requirements analysis, business data analysis, logical system design, quality assurance, and comprehensive information security management. Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, & 5 CIP: 521201 30 Char: Secure Sys Analysis & Design Effective: Summer 2019
+Online/Distance	MKT 3323	**Approved**	**MKT 3323 Approval to Offer Online Campus 5 for International Logistics.** Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 Effective: Summer 2019

EDUCATION

Modification	INDT 1203	**Approved**	**FROM: TKI 1203 Industrial Communications.** (3). Three hours lecture. The use of drawings to communicate ideas of manufacturing and maintenance in machining, electricity/electronics, welding, and hydraulics/pneumatics. **TO: INDT 1203 Industrial Drafting & Print Reading.** (3). Three hours lecture. The use of drawings to communicate ideas of manufacturing and maintenance in machining, electricity/electronics, welding, and hydraulics/pneumatics. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Ind Draft & Print Reading Effective: Spring 2020
Modification	INDT 1814	**Approved**	**FROM: TKI 1814 Basic Industrial Electricity and Electronics.** (3). (Prerequisites: MA 1323). Three hour lecture. Two hours laboratory. Study of fundamental industrial electrical and electronic principles with experimentation and project construction. **TO: INDT 1814 Basic Industrial Electricity and Electronics.** (3). (Prerequisites: MA 1323). Three hour lecture. Two hours laboratory. Study of fundamental industrial electrical and electronic principles with experimentation and project construction. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150303 30 Char: Basic Indust Elec & Electron Effective: Spring 2020

Modification	INDT 2113	**Approved**	**FROM: TKI 2113 Introduction to PLC Programming.** (3). Three hours lecture. Study of fundamental methods in the programming of industrial PLC with regard to language and logic. **TO: INDT 2113 Introduction to PLC Programming.** (3). Three hours lecture. Study of fundamental methods in the programming of industrial PLC with regard to language and logic. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Intro to PLC Program Effective: Spring 2020
Modification	INDT 2123	**Approved**	**FROM: TKI 2123 Introduction to CNC Programming.** (3). (Prerequisite: TKI 1203). Two hours lecture. Two hours laboratory. Study of fundamental concepts and techniques in the construction and programming of computer numerical controlled machines. **TO: INDT 2123 Introduction to CNC Programming.** (3). (Prerequisite: INDT 1203). Two hours lecture. Two hours laboratory. Study of fundamental concepts and techniques in the construction and programming of computer numerical controlled machines. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Intro to CNC Prog Effective: Spring 2020
Modification	INDT 2323	**Approved**	**FROM: TKI 2323 Welding Technology.** (3). Two hours lecture. Two hours laboratory. The use of welding and cutting technology in industry including gas, electric, and wire feed welding and plasma arc cutting. **TO: INDT 2323 Welding Technology.** (3). Two hours lecture. Two hours laboratory. The use of welding and cutting technology in industry including gas, electric, and wire feed welding and plasma arc cutting. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150614 30 Char: Welding Tech Effective: Spring 2020

Modification	INDT 2613	**Approved**	**FROM: TKI 4113 Industrial Fluid Power.** (3). (Prerequisites: PH 1023 or higher). Two hours lecture. Two hours laboratory. A practical study of fluid power concepts, components, and systems as it relates to modern industrial applications and to appropriate scientific principles. Hands-on laboratory activities are included in this study. **TO: INDT 2613 Industrial Fluid Power.** (3). (Prerequisites: PH 1023 or higher). Two hours lecture. Two hours laboratory. A practical study of fluid power concepts, components, and systems as it relates to modern industrial applications and to appropriate scientific principles. Hands-on laboratory activities are included in this study. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Indust Fluid Power Effective: Spring 2020
Modification	INDT 3044	**Approved**	**FROM: TKI 3044 Industrial Safety.** (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. **TO: INDT 3044 Industrial Safety.** (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. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Industrial Safety Effective: Spring 2020

Modification	INDT 3063	**Approved**	**FROM: TKI 3063 Industrial Human Relations.** (3). Three hours lecture. The application of psychological principles to teacher-pupil relationships, employer-employee relationships, and other human relationships in business and industry. **TO: INDT 3063 Industrial Human Relations.** (3). Three hours lecture. The application of psychological principles to teacher-pupil relationships, employer-employee relationships, and other human relationships in business and industry. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Ind Human Relations Effective: Spring 2020
Modification	INDT 3104	**Approved**	**FROM: TKI 3104 Advanced Industrial Electricity and Electronics.** (4). (Prerequisite: TKI 1814). Three hour lecture. Two hours laboratory. Continuation of TKI 1814.Study of and experimentation with industrial electronic, transistor, and integrated circuitry. **TO: INDT 3104 Advanced Industrial Electricity and Electronics.** (4). (Prerequisite: INDT 1814). Three hour lecture. Two hours laboratory. Continuation of TKI 1814.Study of and experimentation with industrial electronic, transistor, and integrated circuitry. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150303 30 Char: Adv Ind Ele, Electro Effective: Spring 2020

Modification	INDT 3223	**Approved**	**FROM: TKI 3223 Industrial Materials.** (3). (Prerequisite: CH 1043 or higher). Three hours lecture. An investigation of the mechanical/characteristic properties of industrial materials including wood, polymers and composites. The influence of these properties on manufacturing and product service requirements. **TO: INDT 3223 Industrial Materials.** (3). (Prerequisite: CH 1043 or higher). Three hours lecture. An investigation of the mechanical/characteristic properties of industrial materials including wood, polymers and composites. The influence of these properties on manufacturing and product service requirements. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Ind Materials Effective: Spring 2020
Modification	INDT 3243	**Approved**	**FROM: TKI 3243 Industrial Metrology.** (3). (Prerequisite: TKI 2123 & BQA 2113). Three hours lecture. Study of fundamental and advanced methods employed for measurement in industry. **TO: INDT 3243 Industrial Metrology.** (3). (Prerequisite: INDT 2123 & BQA 2113). Three hours lecture. Study of fundamental and advanced methods employed for measurement in industry. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Industrial Metrology Effective: Spring 2020

Modification	INDT 3343	**Approved**	**FROM: TKI 3343 CAD/CAM.** (3). (Prerequisite: TKI 2123). Three hours lecture. Basic to intermediate drafting and design techniques using CAD and CAM software, with special emphasis placed on tolerancing, dimensioning and manufacturing processing routes and selection. **TO: INDT 3D Modeling for Manufacture.** (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. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: 3D Modeling Manufacture Effective: Spring 2020
Modification	INDT 3363	**Approved**	**FROM: TKI 3363 Motion and Time Study.** (3). (Prerequisite: Junior Standing). Two hours lecture. Two hours laboratory. A study of the techniques for analysis of production systems, the design of work stations, and the development of time standards. **TO: INDT 3363 Motion and Time Study.** (3). (Prerequisite: Junior Standing). Two hours lecture. Two hours laboratory. A study of the techniques for analysis of production systems, the design of work stations, and the development of time standards. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Motion & Time Study Effective: Spring 2020

Modification	INDT 3373	**Approved**	**FROM: TKI 3373 Forecasting and Cost Modeling.** (3). (Prerequisite: BQA 2113 & TKI 3363). Three hours lecture. Use of the higher functions of spreadsheet software to undertake costing of manufacturing process routes and to forecast changes in manufacturing scenarios. **TO: INDT 3373 Forecasting and Cost Modeling.** (3). (Prerequisite: BQA 2113 & INDT 3363). Three hours lecture. Use of the higher functions of spreadsheet software to undertake costing of manufacturing process routes and to forecast changes in manufacturing scenarios. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Forecast and Cost Modeling Effective: Spring 2020
Modification	INDT 3683	**Approved**	**FROM: TKI 3683 CNC Machining Processes.** (3). (Prerequisite: TKI 3343). Two hours lecture, two hours laboratory. The programming and operation of industrial CNC machine tools, their associated tooling and work holding devices and CAM systems. **TO: INDT 3683 CNC Machining Processes.** (3). (Prerequisite: INDT 3343). Two hours lecture, two hours laboratory. The programming and operation of industrial CNC machine tools, their associated tooling and work. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150611 30 Char: CNC Machining Processes Effective: Spring 2020

Modification	INDT 3813	**Approved**	**FROM: TKI 3813 Writing for Industry.** (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. **TO: INDT 3813 Writing for Industry.** (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. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Writing for Industry Effective: Spring 2020
Modification	INDT 4103	**Approved**	**FROM: TKI 4103 Industrial Control Systems.** (3). (Prerequisite: TKI 3104). Two hours lecture. Two hours laboratory. Application of basic and advanced industrial electronic principles to industrial control systems and processes. **TO: INDT 4103 Industrial Control Systems.** (3). (Prerequisite: INDT 3104). Two hours lecture. Two hours laboratory. Application of basic and advanced industrial electronic principles to industrial control systems and processes. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Industrial Cntrl Sys Effective: Spring 2020

Modification INDT 4203/6203	**Approved**	**FROM: TKI 4203/6203 Automated Systems.** (3). (Prerequisite: TKI 2113 and Junior Standing). Two hours lecture. Two hours laboratory. An advanced study of automated systems and applications for the Industrial Technologist. **TO: INDT 4203/6203 Automated Systems.** (3). (Prerequisite: INDT 2113, INDT 2613 and Junior standing). Two hours lecture. Two hours laboratory. An advanced study of automated systems and applications for the Industrial Technologist. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Automated Systems Effective: Spring 2020
Modification INDT 4213	**Approved**	**FROM: TKI 4213 Survey of Energy Sources and Power Technology.** (3). (Prerequisite: PH 1023 or higher and Junior Standing). Three hours lecture. Scientific and applied approaches to energy conversion, transmission, utilization, and conservation. Internal-external combustion, nuclear, fluid, hydroelectric, solar, etc. Current energy problems; lab demonstrations; activities. **TO: INDT Survey of Energy Sources and Power Technology.** (3). (Prerequisite: PH 1023 or higher and Junior Standing). Three hours lecture. Scientific and applied approaches to energy conversion, transmission, utilization, and conservation. Internal-external combustion, nuclear, fluid, hydroelectric, solar, etc. Current energy problems; lab demonstrations; activities. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150505 30 Char: Energy Source & Power Effective: Spring 2020

Modification	INDT 4224/6224	**Approved**	**FROM: TKI 4224/6224 Quality Assurance.** (4). (Prerequisites: TKI 3373 & Junior Standing). Four hours lecture. Concepts and procedures to design, plan, assure and audit quality and quality systems, with an introduction to Six Sigma and experimental design. **TO: INDT 4224/6224 Quality Assurance.** (4). (Prerequisites: INDT 3373 & Junior Standing). Four hours lecture. Concepts and procedures to design, plan, assure and audit quality and quality systems, with an introduction to Six Sigma and experimental design. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Quality Assurance Effective: Spring 2020
Modification	INDT 4233/6233	**Approved**	**FROM: TKI 4233/6233 Maintenance Management.** (3). (Prerequisite: Junior Standing). Three hours lecture. Understanding of the concepts and practices of Total Productive Maintenance Management, to give a proactive production maintenance strategy for the future. **TO: INDT 4233/6233 Maintenance Management.** (3). (Prerequisite: Junior Standing). Three hours lecture. Understanding of the concepts and practices of Total Productive Maintenance Management, to give a proactive production maintenance strategy for the future. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150612 30 Char: Maintenance Mgt Effective: Spring 2020

Modification INDT 4263/6263	**Approved**	**FROM: TKI 4263/6263 Manufacturing Technology and Processing.** (3). (Prerequisite: Junior standing). Three hours lecture. Discussion and appreciation of manufacturing processes with regard to material processing. **TO: INDT 4263/6263 Manufacturing Technology and Processing.** (3). (Prerequisite: Junior standing). Three hours lecture. Discussion and appreciation of manufacturing processes with regard to material processing. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Mfg Tech & Proc Effective: Spring 2020
Modification INDT 4303/6303	**Approved**	**FROM: TKI 4303/6303 Industrial Robotics.** (3). (Prerequisite: TKI 4103) Two hours lecture. Two hours laboratory. A study of industrial robotics and applications for production supervisors. **TO: INDT 4303/6303 Industrial Robotics.** (3). (Prerequisite: INDT 4103) Two hours lecture. Two hours laboratory. A study of industrial robotics and applications for production supervisors. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150405 30 Char: Industrial Robotics Effective: Spring 2020
Modification INDT 4343	**Approved**	**FROM: TKI 4343 CAD/CAM II.** (3). (Prerequisite: TKI 3343). Three hours lecture. Advanced drafting and design techniques using CADCAM software, with special emphasis place on design of gears, motion analysis, and animation of products. **TO: INDT 4343 Computer Aided Drafting and Design.** (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. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: CADD Effective: Spring 2020

Modification	INDT 4373	**Approved**	**FROM: TKI 4373 Lean Six Sigma.** (3). (Prerequisites: TKI 4224). Three hours lecture. Discussion and applications of Six Sigma within the lean manufacturing environment, to increase quality and reduce costs, to make manufacturers more competitive. **TO: INDT 4373 Lean Six Sigma.** (3). (Prerequisites: INDT 4224). Three hours lecture. Discussion and applications of Six Sigma within the lean manufacturing environment, to increase quality and reduce costs, to make manufacturers more competitive. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Lean Six Sigma Effective: Spring 2020
Modification	INDT 4403	**Approved**	**FROM: TKI 4403 Automated Systems II.** (3). (Prerequisite: TKI 4203). Two hours lecture. Two hours laboratory. An advanced study of automated systems and applications for the Industrial Technologist. **TO: INDT 4403 Automated Systems II.** (3). (Prerequisite: INDT 4203). Two hours lecture. Two hours laboratory. An advanced study of automated systems and applications for the Industrial Technologist. Method of Instruction: B Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Automated Systems II Effective: Spring 2020

Modification	INDT 4463	**Approved**	**FROM: TKI 4463 Manufacturing Technology & Processes II.** (3). (Prerequisite: TKI 4263). Three hours lecture. Discussion and appreciation of manufacturing processes with regard to material processing, including machining and automated and computer-aided manufacturing. **TO: INDT 4463 Manufacturing Technology & Processes II.** (3). (Prerequisite: INDT 4263). Three hours lecture. Discussion and appreciation of manufacturing processes with regard to material processing, including machining and automated and computer-aided manufacturing. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Mfg Tech & Proc II Effective: Spring 2020
Modification	INDT 4801	**Approved**	**FROM: TKI 4801 Senior Seminar.** (3). (Prerequisites: Senior and Graduating Semester). One hour seminar. The issues that face the new technologist entering the workforce, and how to overcome them. **TO: INDT 4801 Senior Seminar.** (3). (Prerequisites: Senior and Graduating Semester). One hour seminar. The issues that face the new technologist entering the workforce, and how to overcome them. Method of Instruction: S Method of Delivery: F & O Campus: 1 & 5 CIP: 150613 30 Char: Senior Seminar Effective: Spring 2020

Technical Change	MUA 8440	**Approved**	**FROM: MUA 8440 Individual Studio Instruction.** (1-2). (Prerequisite: Admission to MME Degree Program). Directed individual study of one to two credit hours. Designed to provide students with advanced, professional-level instruction on a primary or secondary instrument/voice area. Pedagogical techniques and practices frequently used in instructing younger musicians may also be covered. **TO: MUA 8440 Individual Studio Instruction.** (1-2). (Prerequisite: Admission to MME Degree Program). Directed individual study of one to two credit hours. Designed to provide students with advanced, professional-level instruction on a primary or secondary instrument/voice area. Pedagogical techniques and practices frequently used in instructing younger musicians may also be covered. Repeatable five times. Effective: Summer 2019
Technical Change	MUA 8450	**Approved**	**FROM: MUA 8450 Applied Composition.** (1-2). (Prerequisite: Admission to MME Degree Program). Directed individual study of one to two credit hours. Instruction in compositional techniques through the completion of creative projects commensurate with the student's interest and ability as well as acceptable to and appropriate for graduate music study. **TO: MUA 8450 Applied Composition.** (1-2). (Prerequisite: Admission to MME Degree Program). Directed individual study of one to two credit hours. Instruction in compositional techniques through the completion of creative projects commensurate with the student's interest and ability as well as acceptable to and appropriate for graduate music study. Repeatable three times. Effective: Summer 2019

Technical Change MUA 8460	**Approved**	**FROM: MUA 8460 Applied Conducting.** (1-2). (Prerequisite: Admission to MME Degree Program.) One to two hours studio. Individual study of selected scores and conducting techniques. Instruction will be by private studio study with independent practice required. **TO: MUA 8460 Applied Conducting.** (1-2). (Prerequisite: Admission to MME Degree Program.) One to two hours studio. Individual study of selected scores and conducting techniques. Instruction will be by private studio study with independent practice required. Repeatable three times. Effective: Summer 2019

ENGINEERING

Addition ASE 4353/6353 +Online/Distance +Gulf Coast	**Approved**	**ASE 4353/6353 Combustion Theory and Modeling.** (3). (Prerequisite: Grade C or better in ASE 3333 or CHE 3113 or ME 3513 or Instructor Consent). Three-hour lecture. Acquisition of theoretical basis of thermodynamics, chemical kinetics, and fluid physics for describing flames and combustion. Exploration of state-of-the-art problem-solving techniques and software tools. (Same as EM 4353/6353). Method of Instruction: C Method of Delivery: F & O Campus: 1, 5, & 6 CIP: 140201 30 Char: Combustion Theory and Modeling Effective: Summer 2019
+Online/Distance ASE 6163 (split level with ASE 4163)	**Approved**	**ASE 4163/6163 Approval to Offer Online Campus 5 for Introduction to Flight Test Engineering.** Method of Instruction: C Method of Delivery: F & O Campus: 1, 2, 5, & 6 Effective: Summer 2019

Addition CE 4173/6173 +Online/Distance	**Approved**	**CE 4173/6173 Travel Behavior Modeling and Forecasting.** (3). (Prerequisite: CE 3113 or consent of instructor). Three hours lecture. This course gives an overview of travel behavior and demand analysis and forecasting, with primary attention to the statistical and behavioral choice model research techniques used to study and forecast travel demand. Method of Instruction: C Method of Delivery: F & O Campus: 1 & 5 CIP: 140801 30 Char: Travel Behavior Modeling Effective: Summer 2019

2. Program Proposals by college/school:

AGRICULTURE AND LIFE SCIENCES

Addition	**Degree:** Certificate (Undergraduate) **Major:** Retail	**Approved**	Addition of undergraduate certificate. Effective: Fall 2019

EDUCATION

Modification	**Degree:** BS **Major:** Industrial Technology (Campus 1) **Concentrations:** Industrial Automation, Industrial Distribution, Manufacturing & Maintenance Management	**Approved**	See proposal for list of revisions. Revised TKI courses to INDT. Effective: Spring 2020
Modification	**Degree:** BS **Major:** Industrial Technology (Campus 5) **Concentrations:** Industrial Automation, Manufacturing & Maintenance Management	**Approved**	See proposal for list of revisions. Revised TKI courses to INDT. Effective: Spring 2020

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

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Peter L. Ryan
Dr. Peter L. Ryan
Associate Provost for Academic Affairs

May 29
Date