

# Academic Council Minutes

## November 2023

### Midwestern State University

The Academic Council met Wednesday, December 20, 2023 at 2:00 p.m. in the Dillard College of Business Administration, the Priddy Conference Room.

#### Voting Members:

Dr. Sarah Cobb, Interim Dean, McCoy College of Science, Mathematics, and Engineering

Ms. Leah Gose, Dean, Lamar D. Fain College of Fine Arts

Dr. Leann Curry, Dean, Gordon T. and Ellen West College of Education

Dr. Jeff Killion, Dean, Robert D. and Carol Gunn College of Health Sciences and Human Services

Dr. Jeff Stambaugh, Dean, Dillard College of Business Administration

Dr. Sam Watson, Dean, Prothro-Yeager College of Humanities and Social Sciences

Dr. Tiffany Ziegler, Interim Dean, Dr. Billie Doris McAda Graduate School

Dr. Dawn Slavens, Faculty Senate representative

Mr. Brandon Goins, Student Government Association representative (absent from meeting)

#### Additional Attendees:

Dr. Kristen Garrison, Associate Vice President Academic Affairs

Ms. Leah Hickman, Director, Processing and Operations for Admissions

Ms. Kayla Meaders, Academic Advising Committee representative

Ms. Cortny Moorehead, University Librarian, Moffett Library

Mr. Kenley O'Brien, Associate Registrar

Ms. Elizabeth Ysasi, Associate Director of Admissions and Staff Senate representative

Dr. Margaret Brown Marsden, Interim Provost and Vice President for Academic Affairs, presided and the meeting began at 2:03 p.m.

#### **Approval of Minutes**

The October 2023 minutes were brought forward for approval by Dr. Brown Marsden. Dr. Watson approved, Dr. Ziegler seconded, and the minutes were approved.

#### **Old Business**

There being no Old Business, the Council moved on to New Business.

## New Business

### Dillard College of Business Administration – Dr. Stambaugh

1. Dr. Stambaugh submitted the below undergraduate items for approval. Dr. Killion seconded the motion and the items were approved.
2. Dr. Stambaugh indicated this would take effect Fall 2024.

#### 2023-2024 Undergraduate Catalog Changes by Dillard College

Academic Programs - by College – Dillard College of Business Administration – Departments, Programs and Courses – Accounting, Management Information Systems, and Legal Studies – Programs – Major – Management Information Systems, B.B.A.

~~Management Information Systems~~ **Business Analytics and Information Systems (BAIS)**, B.B.A.

(See General Requirements for all Bachelor's Degrees)

Academic Foundations and Core Curriculum - 42 semester hours

(See Academic Foundations and Core Curriculum - 42 semester hours)

Bachelor of Business Administration (Business and Professional Business Cores)

(see Requirements for the Bachelor of Business Administration)

Courses for Major in Management Information Systems - 27 semester hours

MIS 3113 - Business Programming Language 3

MIS 3123 - Database Design and Management 3

~~MIS 3303 - Networking and Telecommunications 3~~

MIS 4153 - **Introduction to** Business Analytics 3

MIS 4163 - Business Systems Analysis and Design 3

**MIS 4173 - Advanced Excel 3**

Plus twelve hours selected from:

MIS 3163 - Project Management 3

MIS 3203 - Electronic Commerce 3

**MIS 3303 - Networking and Telecommunications 3**

**MIS 3423 - Data Visualization 3**

MIS 4113 - Web Application Development 3

~~MIS 4173 - Advanced Excel 3~~

**MIS 4233 - Analytics for Business Decision Making 3**

**MIS 4333 - Data Mining and Text Analytics 3**

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.

MIS 4663 - Special Topics in Management Information Systems 3  
 MIS 4891 - Internship in Management Information Systems 1  
 MIS 4892 - Internship in Management Information Systems 2  
 MIS 4893 - Internship in Management Information Systems 3

**Students must choose at least two of the following courses: MIS 3423 – Data Visualization, MIS 4233 – Analytics for Business Decision Making, and MIS 4333 - Data Mining and Text Analytics.**

Approved Electives

Electives approved by student’s advisor to bring total to 120 semester hours. Developmental courses and EXPH activity courses cannot be counted as electives.

Course Inventory Updates – Effective Fall 2024:

New Course Additions:

Course Prefix: MIS

Course Number: 3423

Course Title: Data Visualization

Prerequisite(s):

Description: **This course provides an in-depth look at data visualization, blending theory and practice. Students will learn design fundamentals and how to use quantitative data to improve decision-making. The course includes lectures, real-world examples, and hands-on software exercises.**

Lec/Lab Hrs: 3(3-0)

Type of Course: Lecture

Course Objectives:

**After taking the course, students should be able to:**

- **Craft visuals that are clean, clear, concise, and engaging, effectively conveying analytical insights.**
- **Understand various visualization techniques and tools to create appropriate visuals for diverse data.**
- **Utilize advanced visualization software to present complex data across various projects.**
- **Apply design principles to enhance visualizations for better interpretability and impact.**
- **Recognize the ethical implications of data representation, ensuring accuracy and avoiding bias.**

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.

Course Prefix: MIS

Course Number: 4233

Course Title: Analytics for Business Decision-Making

Prerequisite(s): BUAD 3033

Description: This course covers predictive and prescriptive analytics methods for solving business problems. Topics include regression, forecasting with time series data, simulation, and optimization.

Lec/Lab Hrs: 3(3-0)

Type of Course: Lecture

Course Objectives:

- Identify predictive and prescriptive analytics techniques for business decision-making.
- Apply logistic regression to predict discrete business outcomes.
- Use time series data to make forecasts.
- Implement optimization techniques to identify the best possible course of action.
- Examine relevant business scenarios and perform risk analysis with simulation.

Course Prefix: MIS

Course Number: 4333

Course Title: Data Mining and Text Analytics

Prerequisite(s): MIS 3113

Description: This course covers key techniques in data mining and text analytics, including both supervised and unsupervised learning methods. Students will apply these skills to real-world business challenges like customer segmentation and sentiment analysis, using popular tools for hands-on experience.

Lec/Lab Hrs: 3(3-0)

Type of Course: Lecture

Course Objectives:

After taking the course, students should be able to:

- Grasp essential data mining and text analytics techniques, including data pre-processing, training, validation, and evaluation.
- Apply analytics to solve real-world problems with diverse datasets and case studies.
- Develop proficiency in communicating analytical results.
- Understand ethical and legal aspects of data mining to ensure responsible data practices.

Change of Course Title and Description:

Course Prefix: MIS

Course Number: 4153

Course Title: Introduction to Business Analytics

Prerequisite(s):

Description: This course covers ~~provides an introduction to~~ business analytics concepts, methods, tools, and applications. ~~In this course, students will apply business analytic models on large datasets and make business decisions based on the analysis results.~~ **It focuses on data wrangling, descriptive analytics including data visualization, and predictive analytics.**

### **Prothro-Yeager College of Humanities and Social Sciences – Dr. Watson**

3. Dr. Watson submitted the below undergraduate items for approval. Dr. Ziegler seconded the motion and the items were approved.

#### **English Minor**

#### **Return to: Majors/Minors/Programs, A-Z list**

#### **Requirements for a Minor in English - 18 semester hours**

- **ENGL 2013—Intro to English Studies 3**

#### **English Courses - 12 semester hours, of which 9 must be advanced**

**Twelve additional semester hours, of which nine must be advanced, selected from any ENGL 2000-4000**

**level courses (excluding ENGL 2113).**

#### **Department Course – 3 hours**

**Choose 3 hours at the 2000-4000 level from:**

- **ENGL (excluding ENGL 2113) 3**
- **HUMN 3**
- **PHIL 3**

**Return to: Majors/Minors/Programs, A-Z list**

4. Dr. Watson submitted the below undergraduate items for approval. Dr. Killion seconded the motion and the items were approved.

### Philosophy Minor

Effective Date: Spring 2024

Contact: Tyler M. Williams, [tyler.williams@msutexas.edu](mailto:tyler.williams@msutexas.edu)

Requirements for a Minor in Philosophy – 18 semester hours

~~PHIL 1033 – Introduction to Philosophy 3~~  
~~PHIL 2033 – Ethics 3~~

History of Philosophy – 6 hours

Six hours of coursework in the history of philosophy. Courses of the same title cannot be taken at both the 2000 and 4000 levels.

PHIL 2503 – ~~History of Western Philosophy I~~ **Ancient and Medieval Philosophy** 3  
 PHIL 2513 – ~~History of Western Philosophy II~~ **Modern and Contemporary Philosophy** 3  
 PHIL 4503 – ~~History of Western Philosophy I~~ **Ancient and Medieval Philosophy** 3  
 PHIL 4513 – ~~History of Western Philosophy II~~ **Modern and Contemporary Philosophy** 3

Additional Courses – ~~6~~ **12** semester hours.

~~Six~~ **Twelve** additional semester hours of PHIL coursework. The minor requires a minimum of 6 credit hours of advanced coursework, whether completed in History of Philosophy or Additional Courses. Courses of the same title cannot be taken at both the 2000 and 4000 levels.

### Course Inventory Updates – Effective Spring 2024:

#### Deletion of Course

Course Prefix: ~~PHIL~~

Course Number: ~~2073~~

Course Title: ~~Philosophy of Horror and the Macabre~~

Course Prefix: ~~PHIL~~  
 Course Number: ~~2703~~  
 Course Title: ~~Philosophy and Death~~

Change of Course Title:

Course Prefix: PHIL  
 Course Number: 4503  
 Course Title: ~~History of Western Philosophy I~~ **Ancient and Medieval Philosophy**

Course Prefix: PHIL  
 Course Number: 4513  
 Course Title: ~~History of Western Philosophy II~~ **Modern and Contemporary Philosophy**

### **McCoy College of Science, Mathematics and Engineering – Dr. Cobb**

5. Dr. Cobb submitted the below undergraduate items for approval. Dr. Slavens seconded the motion and the items were approved.
6. Dr. Brown Marsden noted this will need to go to the Board of Regents, SACSCOC, and THECB.

### **Electrical Engineering, B.S.E.E.**

#### **Program Description:**

**The electrical engineering program provides each graduate with a foundation of knowledge and training upon which to build a successful career in electrical engineering or related fields. Graduates of the program are well grounded in scientific, mathematical, and electrical engineering knowledge through curricular activities that reflect technological advances. This is achieved by honing their ability to analyze, synthesize, and design electrical engineering systems, communicate information, and understand and appreciate the need for life-long learning.**

#### **Program Education Objectives**

**The educational objectives of the Bachelor of Science in Electrical Engineering major are to:**

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.

- **Provide students content knowledge for electrical engineering, including their ability to analyze, synthesize, and design electrical engineering systems, communicate information, and understand and appreciate the need for life-long learning;**
- **Engage students in creativity and problem solving, such as in research methods in industry and design;**
- **Develop outstanding oral and written communication, to be applied in collaborating with internal and external partners in communication in industry and problem solving in industry;**
- **Apply content knowledge toward electrical engineering, including software design and implementation, integrated circuit design, digital signal processing, and digital logic design.**

### General

(See General Requirements for all Bachelor's Degrees)

### Academic Foundations and Core Curriculum - 42 semester hours

(See Academic Foundations and Core Curriculum – 42 semester hours)

### Core Curriculum Specifics – 46 total core semester hours

- **MATH 1634 - Calculus I 4**
- **PHYS 1624 - Mechanics, Wave Motion, and Heat 4**
- **PHYS 2644 - Electricity and Magnetism and Optics 4**
- **CMPS 1044 – Computer Science I 4**
- **PHIL 2033 – Ethics 3**

### **Electrical Engineering Major Course Work – 47 semester hours**

- **EENG 1101 - Introduction to Engineering 1**
- **EENG 1123 – Engineering Economics 3**
- **EENG 2104 - Electric Circuits 4**
- **EENG 2212 – Engineering Computation 2**
- **EENG 2204 - Electronics 4**
- **EENG 3154 – Integrated Circuit Design 4**
- **EENG 3204 – Digital Signal Processing 4**
- **EENG 3123 – Measurements & Instrumentation 3**
- **EENG 3283 – Electrical Systems Design 3**
- **EENG 4124 – Embedded and Real-Time Systems 4**
- **EENG 4143 - Senior Design I 3**
- **EENG 4163 - Programmable Logic Controls I 3**

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.



- EENG 4223 – Electrical Power Design 3
- EENG 4243 - Senior Design II 3
- EENG 4253 - Control Systems 3

**Program Requirements – 27 semester hours**

- CMPS 1063 – Data Structures and ADT 3
- CHEM 1141 - General Chemistry Laboratory 1
- CHEM 1143 - General Chemistry 3
- ENGL 3203 – Technical Writing 3
- MATH 1734 – Calculus II 4
- MATH 2534 - Calculus III 4
- MATH 2753 – Linear Algebra 3
- MATH 3433 – Differential Equations 3
- STAT 3573 – Probability and Statistics 3

**Additional Information**

**The student must achieve an overall cumulative GPA of at least 2.3.**

Course Inventory Updates – Effective Fall 2024

New Course Additions:

Course Prefix: EENG

Course Number: 1101

Course Title: Introduction to Engineering

Prerequisite(s): None *cross list with MENG 1101*

Description: **A study that defines the history and the various fields of engineering, the career paths for engineers, the engineer as a professional, the engineering path for learning and creative thoughts, the engineering approach to problem solving, the engineering information and communication tools, and engineering calculations.**

Lec/Lab Hrs: 1(1-0)

Type of Course: Lecture

Course Prefix: **EENG**

Course Number: **1123**

Course Title: **Engineering Economics**

Prerequisite(s): **MATH 1233** *cross list with MENG 1123*

Description: **The time value of economic resources such as cash flow diagrams, simple and compound interest, present worth, future worth, equal payment series, and the economic evaluation of engineering projects.**

Lec/Lab Hrs: **3(3-0)**

Type of Course: **Lecture**

Course Objectives:

**Student will learn:**

1. **Introduction, terminology, basic concepts**
2. **Economy factors, single payment, present and future worth**
3. **Combining factors**
4. **Nominal and effective interest rates**
5. **Economic evaluation of engineering projects via basic analysis tools.**

Course Prefix: **EENG**

Course Number: **2104**

Course Title: **Electric Circuits**

Prerequisite(s): **PHYS 2644** *cross list with MENG 2104*

Description: **This course covers the fundamental components and concepts of analog electric circuits. An introduction of units and laws of physics will be included along with an overview of complex variables and basic first and second order ordinary differential equations. The focus of this course is the topics related to electric fields, DC series and parallel circuits, Kirchhoff's Laws, network analysis, and AC circuits. Simulation based circuit analysis via Electronics Workbench and hands-on laboratories are included in the laboratory section of this course.**

Lec/Lab Hrs: **4(3-2)**

Type of Course: **Lecture/Lab**

Course Prefix: **EENG**

Course Number: **2204**

Course Title: **Electronics**

Prerequisite(s): **EENG 2104** *cross list with MENG 2204*

Description: **Introduction to semiconductor devices, basic amplifiers and feedback, symbolic logic, Boolean algebra, basic TTL gates, counters and flip-flops, and shift registers.**

Lec/Lab Hrs: **4(3-2)**

Type of Course: **Lecture/Lab**

Course Prefix: EENG

Course Number: 2212

Course Title: Engineering Computation

Prerequisite(s): MATH 1634 *cross list with MENG 2212*

Description: This course is an introduction to the use of MATLAB and Excel. Two parts are including in this course. The two parts are the Computational Tools and Engineering Applications. This course provides a detailed introduction to the computational techniques, numerical methods, and computational tools used by engineering students. This course include study of the fundamental of numerical computations and analyses through the use of MATLAB and Excel. MATLAB can be used for math computations, modeling and simulations, data analysis and processing, visualization and graphics, and algorithm development. Excel can be used for related calculations, graphing tools, axis tables, and programming language.

Lec/Lab Hrs: 2(2-0)

Type of Course: Lecture

Course Objectives:

Student will learn:

1. Computing Tools
2. Excel Fundamentals
3. MATLAB Fundamentals
4. MATLAB Programming
5. Plotting Data
6. Finding the Roots of Equations
7. Matrix Mathematics
8. Solving Simultaneous Equations
9. Numerical Integration
10. Optimization

Course Prefix: EENG

Course Number: 3123

Course Title: Measurements and Instrumentation

Prerequisite(s): EENG 2204, and MATH 3433 or concurrent enrollment therein *cross list with MENG 3123*

Description: Fundamentals of measurement systems, standards, treatment of data, statistics, uncertainty analysis, data acquisition, transducers, strain, force, acceleration, pressure, temperature, and fluid flow. Companion lab.

Lec/Lab Hrs: 3(2-2)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 3154

Course Title: Integrated Circuit Design

Prerequisite(s): EENG 2204

Description: Circuit-level aspects of metal oxide silicon (MOS) and bipolar integrated circuit technologies. Logic gates and latches; propagation delays; circuit simulation models.

Lec/Lab Hrs: 4(3-2)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 3204

Course Title: Digital Signal Processing

Prerequisite(s): CMPS 1063, EENG 3154

Description: Sampling, aliasing, truncation effects; discrete and fast Fourier transform methods; convolution and deconvolution; finite and infinite impulse response filter design methods; Wiener, Kalman, noncausal, linear phase, median, and prediction filters; and spectral estimation.

Lec/Lab Hrs: 4(3-2)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 3283

Course Title: Electrical Systems Design

Prerequisite(s): EENG 2212

Description: An introduction to the Matlab software and its programming tools. Introduction to Finite Elements through Solid Works simulation. Study of LabView software. Topics include arrays, while and for loops, case structures, shift register, and sequence locals. Companion lab.

Lec/Lab Hrs: 3(2-2)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 4124

Course Title: Embedded and Real-Time Systems

Prerequisite(s): EENG 3163

Description: Embedded microcomputer systems; implementation of multitasking, synchronization, protection, and paging; operating systems for embedded microcomputers; design, optimization, evaluation, and simulation of digital and analog interfaces; real-time microcomputer software; applications, including data acquisition and control.

Lec/Lab Hrs: 4(3-2)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 4143

Course Title: Senior Design I

Prerequisite(s): Completion of all required EENG 3000-level courses or permission of instructor  
*Cross list with MENG 4143*

Description: Coursework emphasizes creative and critical thinking, planning, design, team work, and project management. This course integrates knowledge gained from most of the required courses in a major design project. Students will design, build, and formally present their completed projects to a panel of professional reviewers. Ideally students will ideally work on projects from local industry. If such projects are not available, the students or the instructor may propose projects. Complex projects can be carried to the next design course.

Lec/Lab Hrs: 3(1-4)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 4163

Course Title: Programmable Logic Controls I

Prerequisite(s): EENG 3283

Description: Programmable logic programming with an emphasis on motor control using open loop and closed loop systems. The course will use a variety of mathematical blocks, including PID control programming. The course will also use simulation software and real world equipment to control equipment. Companion lab.

Lec/Lab Hrs: 3(2-2)

Type of Course: Lecture/Lab

Course Prefix: EENG

Course Number: 4223

Course Title: Electrical Power Design

Prerequisite(s): EENG 3283

Description: This course covers magnetic circuits, principles of electromagnetic energy conversion, synchronous machines, three-phase induction motors, transformers, DC machines, and fundamentals of power systems modeling and design.

Lec/Lab Hrs: 3(3-0)

Type of Course: Lecture

Course Prefix: EENG

Course Number: 4243

Course Title: Senior Design II

Prerequisite(s): EENG 4143 *Cross list with MENG 4243*

Description: A continuation of EENG 4143

Lec/Lab Hrs: **3(1-4)**

Type of Course: **Lecture/Lab**

Course Prefix: **EENG**

Course Number: **4253**

Course Title: **Control Systems**

Prerequisite(s): **MATH 3433** *Cross list with MENG 4253*

Description: **Feedback control of electrical systems. Topics include programmable logic controllers, PID control, Laplace transforms, system modeling and performance analysis, stability theory, s-plane, and root locus and/or frequency-based design, design and computer problems.**

Lec/Lab Hrs: **3(3-0)**

Type of Course: **Lecture**

7. Dr. Cobb submitted the below undergraduate items for approval. Dr. Ziegler seconded the motion and the items were approved.

Deletion of Course – Effective Fall 2024:

Course Prefix: ~~BIOL~~

Course Number: ~~2114~~

Course Title: ~~Life III~~

Prerequisite(s):

Description: *Life III has been eliminated from the biology curriculum since Fall 2020*

Lec/Lab Hrs: ~~4(3-2)~~

Type of Course: ~~Lecture~~

Course Objectives:

## Graduate Course and Catalog Changes – Dr. Ziegler

8. Dr. Ziegler submitted the below graduate items for approval. Dr. Cobb seconded the motion and the items were approved.
9. Dr. Brown Marsden noted this would also need to go through the approvals of Board of Regents, SACSCOC, and THECB.

### McCoy College of Science, Mathematics, and Engineering

New Program and Course Additions Effective Fall 2024

M.S. in Industrial Technology, M.S.I.T.

#### **The mission of the Master of Science in Industrial Technology degree is to:**

- **Provide advanced training to experienced industrial technology professionals**
- **Advance knowledge of BS graduates of industrial technology programs**
- **Expand opportunity for career change for individuals with undergraduate preparation in fields other than industrial technology**

**The degree provides experience that emphasize the theory, application, and contemporary research in industrial technology. The MS program is designed to accept applicants from a broad range of undergraduate preparation and to provide them with knowledge and skills encompassing the areas of industrial technology methodologies, design and development.**

**Industrial Technology graduate programs prepare individuals for career advancement that involve the management of complex technological systems.**

**Midwestern State University is following the guidelines of ATMAE (Association of Technology, Management and Applied Engineering) in designing this program.**

**The Master of Science in Industrial Technology (MSIT) program provides graduate level education for highly motivated professionals concerned with the supervision of personnel across the technical spectrum and a wide variety of complex technological systems. Graduates of this program play leadership roles involving technology innovation, development and deployment of new technologies, and decision-making to improve industry performance.**

#### **The educational objectives of the Master of Science in Industrial Technology major are to:**

- **Provide students content knowledge for engineering and manufacturing principles, including resource planning, industrial organizational change, global production and competition and innovation;**
- **Engage students in creativity and problem solving, such as in research methods in industry and design for manufacturing;**

- **Develop outstanding oral and written communication, to be applied in collaborating with internal and external partners in communication in industry and problem solving in industry;**
- **Apply content knowledge toward manufacturing industry management, including product development, industrial employee training, and managing change in industry.**

### **M.S. Industrial Technology Degree Plan**

<b><u>Code</u></b>	<b><u>Title</u></b>	<b><u>Credits</u></b>
<b><u>Core Courses</u></b>		<b><u>12</u></b>
<b><u>TECH 5153</u></b>	<b><u>Communication in Industry</u></b>	<b><u>3</u></b>
<b><u>TECH 5243</u></b>	<b><u>Problem Solving in Industry</u></b>	<b><u>3</u></b>
<b><u>TECH 5303</u></b>	<b><u>Research Methods in Industry</u></b>	<b><u>3</u></b>
<b><u>TECH 5413</u></b>	<b><u>Design for Manufacturing (Capstone Project)</u></b>	<b><u>3</u></b>
		<b><u>18</u></b>
<b><u>TECH 5133</u></b>	<b><u>Resource Planning</u></b>	<b><u>3</u></b>
<b><u>TECH 5143</u></b>	<b><u>Product Development</u></b>	<b><u>3</u></b>
<b><u>TECH 5313</u></b>	<b><u>Industrial Employee Training</u></b>	<b><u>3</u></b>
<b><u>TECH 5333</u></b>	<b><u>Managing Change in Industry</u></b>	<b><u>3</u></b>
<b><u>TECH 5343</u></b>	<b><u>Global Production</u></b>	<b><u>3</u></b>
<b><u>TECH 5403</u></b>	<b><u>Competition &amp; Innovation</u></b>	<b><u>3</u></b>
<b><u>Total Credits</u></b>		<b><u>30</u></b>

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.



**Sequence for teaching the TECH courses:**

		<u>Yr. 1</u>	<u>Yr. 1</u>	<u>Yr. 1</u>	<u>Yr. 2</u>	<u>Yr. 2</u>	<u>Yr. 2</u>
<u>Course #</u>	<u>Course title</u>	<u>Fall</u>	<u>Spring</u>	<u>Summer</u>	<u>Fall</u>	<u>Spring</u>	<u>Summer</u>
<b><u>TECH 5153</u></b>	<b><u>Communication in Industry</u></b>	●			●		
<b><u>TECH 5133</u></b>	<b><u>Resource Planning</u></b>	●			●		
<b><u>TECH 5143</u></b>	<b><u>Product Development</u></b>				●		
<b><u>TECH 5403</u></b>	<b><u>Competition &amp; Innovation</u></b>				●		
<b><u>TECH 5333</u></b>	<b><u>Managing Change in Industry</u></b>					●	
<b><u>TECH 5303</u></b>	<b><u>Research Methods in Industry</u></b>		●			●	
<b><u>TECH 5243</u></b>	<b><u>Problem Solving in Industry</u></b>		●			●	
<b><u>TECH 5343</u></b>	<b><u>Global Production</u></b>					●	
<b><u>TECH 5313</u></b>	<b><u>Industrial Employee Training</u></b>			●			●
<b><u>TECH 5413</u></b>	<b><u>Design for Manufacturing (Capstone Project)</u></b>						●

**● Required Courses****Catalog Additions****TECH 5133 – Resource Planning****3 (3-0)****Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of the challenges involved in starting or growing an existing company and methods of obtaining funding for industrial expansions or startups. The course will show you funding opportunities for your needs, including for startups and inventors.**

**TECH 5143 – Product Development****3 (3-0)****Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of the challenges involved in developing new product ideas, product evaluation and testing and launch of a new product. It includes identification and selection for new products, new product processes for manufacture, design of new products, and testing a new product.**

### **TECH 5153 – Communication in Industry**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of the tools students need to make informed and ethical decisions and to master practical skills and competencies necessary for succeeding in industry We will discuss effective communication in teams, brainstorming, presentations, and report writing.**

### **TECH 5243 – Problem Solving in Industry**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of the tools for solving problems in industry, communicating with culturally diverse audience, and using interpersonal skills in conversations and meetings. It includes industry presentations and report writing.**

### **TECH 5303 – Research Methods in Industry**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of organized research methods solution that provides real-world industry practices. It includes design of experiments, measurement instruments, and collection, preparation and examination of data.**

### **TECH 5313 – Industrial Employee Training**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of the need for industrial employee training and development, training methods, evaluation and the future of training and development. It includes traditional training methods and technology based training methods.**

**TECH 5333 – Managing Change in Industry**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of managing change in industry by looking at the external environment, the global environment, long term objectives and strategies, and organizational structure. It includes leadership for managing change.**

**TECH 5343 – Global Production**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of globalization, national differences, international trade, entry strategy and strategic alliances, and global production. It includes cultural differences and sustainability.**

**TECH 5403 – Competition & Innovation**

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**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of competitive strategy, innovation strategy, creativity and product development, intellectual property, and acquiring and organizing resources. It includes acquisitions and expansions.**

**TECH 5413 – Design for Manufacturing (Capstone Project)**

**3 (3-0)**

**Prerequisite(s): Graduate standing or the consent of the instructor.**

**This course is a study of design for manufacturing, and design for quality with an integrated hands-on design project. It includes concept generation, detailed design, reliability and safety, and robust design.**

TECH 5133 (new course addition)

Course Title: Resource Planning

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of the challenges involved in starting or growing an existing company and methods of obtaining funding for industrial expansions or startups. It will show you funding opportunities for your needs, including for startups and inventors.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **The Opportunity**
2. **The Challenge**
3. **The Solution**
4. **Funding for Business**
5. **Industry Funding**
6. **Economic Development Funding**
7. **Funding for Independent Inventors**
8. **Grants for Startups and Small Businesses**
9. **Incubator Funding**

TECH 5143 (new course addition)

Course Title: Product Development

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of the challenges involved in developing new product ideas, product evaluation and testing and launch of a new product. It includes identification and selection for new products, new product processes for manufacture, design of new products, and testing a new product.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **The New Products Process**
2. **New Product Ideas: The Problem Find-Solve Approach**
3. **Concept Evaluation and Testing**
4. **Sales Forecasting and Financial Analysis**

5. **Design**
6. **Product Use Testing**
7. **Strategic Launch Planning**
8. **Market Testing**

TECH 5153 (new course addition)

Course Title: Communication in History

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of the tools students need to make informed and ethical decisions and to master practical skills and competencies necessary for succeeding in industry We will discuss effective communication in teams, brainstorming, presentations, and report writing.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **Communicating at Work**
2. **Listening**
3. **Verbal and Nonverbal Messages**
4. **Interpersonal Strategies and Skills**
5. **Principles of Interviewing**
6. **Leading and Working in teams**
7. **Effective Meetings**
8. **Delivering the Presentation**

TECH 5243 (new course addition)

Course Title: Problem Solving in Industry

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of the tools for solving problems in industry, communicating with culturally diverse audience, and using interpersonal skills in conversations and meetings. It includes industry presentations and report writing.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **Solving Problems in the Workplace**
2. **Getting Positive Responses to your Communication**
3. **Communicating with Culturally Diverse Audiences**
4. **Communicating Your Messages Visually**
5. **Writing Persuasive Messages and Proposals**
6. **Researching and Writing Reports**
7. **Delivering Presentations and Speeches**
8. **Using Interpersonal Communication Skills in Conversations and Meetings**

TECH 5303 (new course Addition)

Course Title: Research Methods in Industry

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of organized research methods solution that provides real-world industry practices. It includes design of experiments, measurement instruments, and collection, preparation and examination of data.**

Lecture/Lab Hours: 3 (3-0)

Course Objective

**Student will learn:**

1. **Research Foundations and Fundamentals**
2. **The Research Process: An Overview**
3. **Clarify the Research Question**
4. **Research Design**
5. **Sampling Design**
6. **Data Collection Design**
7. **Measurement Instruments**
8. **Collect, Prepare, and Examine Data**
9. **Research Reports**

TECH 5313 (new course addition)

Course Title: Industrial Employee Training

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of the need for industrial employee training and development, training methods, evaluation and the future of training and development. It includes traditional training methods and technology based training methods.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **Introduction to Employee training and Development**
2. **Needs Assessment**
3. **Program Design**
4. **Training Evaluation**
5. **Traditional Training Methods**
6. **Technology-Based Training Methods**
7. **Employee Development and Career Management**
8. **Social Responsibility: Legal Issues, Managing Diversity, and Career Challenges**
9. **The Future of Training and Development**

TECH 5333 (new course addition)

Course Title: Managing Change in Industry

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of managing change in industry by looking at the external environment, the global environment, long term objectives and strategies, and organizational structure. It includes leadership for managing change.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **The External Environment**
2. **The Global Environment**
3. **Long-Term Objectives and Strategies**
4. **Organizational Structure**
5. **Leadership and Culture**
6. **Strategic Control**
7. **Innovation and Entrepreneurship**

TECH 5343 (new course addition)

Course Title: Global Production

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of globalization, national differences, international trade, entry strategy and strategic alliances, and global production. It includes cultural differences and sustainability.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **Globalization**
2. **National Differences in Political Economy and Legal Systems**
3. **National Differences in Economic Development**
4. **Differences in Culture**
5. **International Trade Theory**
6. **Government Policy and International Trade**
7. **Foreign Direct Investment**
8. **The Foreign Exchange Market**
9. **The Organization of International Business**
10. **Entry Strategy and Strategic Alliances**
11. **Global Production and Supply Chain Management**

TECH 5403 (new course addition)

Course Title: Competition & Innovation

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of competitive strategy, innovation strategy, creativity and product development, intellectual property, and acquiring and organizing resources. It includes acquisitions and expansions.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **Venture Opportunity and Strategy**
2. **Competitive Strategy**
3. **Innovation Strategy**
4. **Creativity and Product Development**
5. **Intellectual Property**
6. **Acquiring and Organizing Resources**
7. **Acquisitions and Global Expansion**
8. **Deal Presentations and Negotiations**
9. **Leading Ventures to Success**

TECH 5413 (new course addition)

Course Title: Design for Manufacturing (Capstone Project)

Course Prerequisite: Graduate standing or the consent of the instructor.

Course Description: **This course is a study of design for manufacturing, and design for quality with an integrated hands-on design project. It includes concept generation, detailed design, reliability and safety, and robust design.**

Lecture/Lab Hours: 3 (3-0)

Course Objective:

**Student will learn:**

1. **Product-Development Process**
2. **Team Behavior and Tools**
3. **Problem Definition and Need Identification**
4. **Decision Making and Concept Selections**
5. **Detail Design**
6. **Design for Manufacturing**
7. **Cost Evaluation**
8. **Risk, Reliability, and Safety**
9. **Economic Decision Making**



10. Dr. Ziegler submitted the below graduate items for approval. Dr. Cobb seconded the motion and the items were approved

GEOS Course Inventory/Catalog Changes – Effective Fall 2023

GEOS 5083 (new course addition)

Course Title: Advanced Computing in Geospatial Sciences

Course Prerequisite: CMPS 1023 or CMPS 1044, MATH 1233 or MATH 1534 or MATH 1634 or permission of the instructor.

Course Description: **This course will introduce graduate students to high-level programming to easily exploit MATLAB's extensive capabilities for tackling scientific problems related to geosciences, environmental science, and geospatial science. The course will start with programming concepts, such as variables, assignments, and section statements, move on to loops, modular code and data structures and then solve problems using both the traditional programming method and the power of MATLAB. Advanced applications include data transfer, graphics, object-oriented programming, event-driven programming, mapping, and image processing. Coursework emphasizes logic and scientific approach towards research and practical applications.**

Lecture/Lab Hours: 3 (2-2)

Course Objective:

**Students will:**

- **Learn the basics of scientific computing**
- **Be able to develop MATLAB code and construct scientific programs to perform data manipulation tasks with geoscience, environmental science, and geospatial science datasets**
- **Know how to use commonly available MATLAB built-in function and toolboxes**
- **Write efficient, well-structured and commented MATLAB scripts for a range of scientific data analysis tasks and mathematical calculations**
- **Use available documentation and internet resources to learn more advanced skills**

GEOS 5183 (new course addition)

Course Title: Advanced Geospatial Programming

Course Prerequisite: CMPS 1023 or CMPS 1044, GEOS 3044

Course Description: **Students who engage in this class will be equipped to write useful Python scripts that work with spatial data in ArcGIS Pro. The students will also learn how to execute geoprocessing tools and describe, create, and update data, as well as execute a number of specialized tasks. Lectures will cover how to write simple custom scripts that will automate ArcGIS Pro workflows. Throughout, the course will focus on the ways to share the tools with others as well as master several more specialized tasks.**

Lecture/Lab Hours: 3 (2-2)

Course Objective:

**The course will help students:**

- **Writing specialized scripts using ArcPy**

- Creating Python script tools
- Writing Python toolboxes
- Sharing scripts and tools
- Managing Python packages and environments
- Creating custom functions and classes

11. Dr. Ziegler submitted the below graduate items for approval. Dr. Watson seconded the motion and the items were approved

Prothro-Yeager College of Humanities and Social Sciences

HIST Course Inventory/Catalog Changes – Effective Fall 2024

HIST 6993 (change course description)

Course Title: Thesis II

Course Prerequisite: HIST 6983

Course Description: Students will work with the thesis chair and the GAC on the research and writing of the thesis. Students must show adequate progress on the thesis by the end of the course. Students who fail to show adequate progress will not be granted credit for HIST 6993 and the transcript will remain “X,” which will not influence the student’s GPA **but does affect completion hours. Students may only enroll in this class for four long semesters.** Exceptions to this rule must be approved by the Department Chair.

Lecture/Lab Hours: 3 (3-0)

12. Dr. Ziegler submitted the below graduate items for approval. Dr. Stambaugh seconded the motion and the items were approved.

Dillard College of Business Administration

BUAD Catalog Changes Effective Fall 2024

M.A. in Business Administration, M.B.A.

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.

## Common Body of Knowledge Requirement

The common body of knowledge (CBK) represents the minimum core of knowledge which must be attained prior to beginning graduate study in business. The CBK is composed of 27 semester hours of undergraduate course work representing each of the major business disciplines. The required CBK courses are listed below.

- ACCT 2143 Financial Accounting 3 hrs.
- ACCT 2243 Managerial Accounting 3 hrs.
- BUAD 3033 Business and Economic Statistics 3 hrs.
- ECON 2333 Macroeconomics 3 hrs.
- ECON 2433 Microeconomics 3 hrs.
- FINC 3733 Business Finance 3 hrs.
- MGMT 3013 Organizational Behavior 3 hrs.
- MIS 3003 Management Information Systems 3 hrs.
- MKTG 3723 Principles of Marketing 3 hrs.

In most cases, students who have earned a bachelor's degree in business administration will have satisfied the entire CBK. Students who have had no previous course work in business can have portions of the CBK waived with other previous course work and/or relevant work experience or by equivalency testing. The specific CBK courses required will be determined by the Graduate Coordinator and discussed with each student in an initial meeting. Alternatively, the entire CBK can be satisfied by completing the six-hour graduate course: BUAD 5006-Foundations for the MBA.

## MBA Course Work Requirements

The total number of semester hours of course work required to earn the MBA degree depends on the undergraduate background of each MBA student. **Students entering the MBA program who have a Bachelor of Business Administration (BBA) that satisfies the Common Body of Knowledge (CBK) must take the required 11 MBA courses or 33 credit hours. Students entering the MBA program who do not have a BBA that satisfies the CBK requirement, or their undergraduate background does not satisfy the CBK requirement must take the six-credit hour leveling course BUAD 5006 in their first semester and can take graduate level business courses concurrently. Students whose undergraduate background does not satisfy the CBK requirement must take the six-credit hour leveling course plus the required 11 MBA courses.** ~~All students entering the MBA Program must:~~

- ~~1. Satisfy the Common Body of Knowledge (CBK) requirement before beginning graduate level course work, and~~
- ~~2. Complete the MBA core course work specified for the MBA program.~~

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.

~~Once the CBK requirement has been satisfied, the graduate student may begin taking the graduate level core courses required for the MBA degree.~~

## MBA

Each student will take 8 required graduate courses (24 semester hours) plus 3 graduate electives (9 semester hours) for a total of 33 semester hours.

ACCT 5213 - Cost Analysis and Control

3 (3-0)

~~Prerequisite(s): BUAD 5006 or ACCT 2143 and 2243 or equivalent and consent of the Graduate Coordinator.~~

Management control systems, profit performance, standard and direct costing, investment control, and long-range planning.

BUAD 5603 - Advanced Applied Business Statistics

3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~

The course teaches students the application of statistical methods and interpretation of statistical analysis. The statistical methods include descriptive statistics, one-and two-sample test, ANOVA, correlation, linear and multiple regression, and analysis of categorical data. The course gives students the statistical background to analyze data to solve business problems.

ECON 5113 - Managerial Economics

3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~

Formulation of economic theories of supply, demand, and market equilibrium with emphasis on teaching students how to apply microeconomic theory in managing a business.

or

ECON 5143 - Data Modeling and Forecasting

3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~

This course teaches students to analyze and model time series data. Students will analyze data, create forecast models, assess forecast models, and forecast future data values. This includes

learning about autoregressive models, autoregressive moving average models, the ARIMA model, conditional heteroscedasticity models, vector autoregressive models, and vector error correction models. These methodologies can be used to forecast business data and data from other areas.

**FINC 5713 - Financial Administration**

**3 (3-0)**

**~~Prerequisite(s): BUAD 5006 or BUAD 3033 and FINC 3733 and consent of the Graduate Coordinator.~~**

Theoretical and procedural consideration in administering business firm financial planning, fund raising, and controlling of firm's finances. Specific emphasis is given to capital budgeting and cost of capital.

**MGMT 5443 - Current Issues in Organizational Behavior**

**3 (3-0)**

**~~Prerequisite(s): BUAD 5006 or MGMT 3013 or equivalent and consent of the Graduate Coordinator.~~**

Behavioral factors relating to issues such as automation, ethics, labor-management relations, and similar problems, with emphasis upon research and current literature.

**MGMT 6883 - Graduate Seminar in Business Policy**

**3 (3-0)**

**~~Prerequisite(s): Consent of the Graduate Coordinator.~~**

Analytical study of business decision making, the creation of business strategy, and the creation of sound business objectives and policies. Takes an integrating or interdisciplinary approach to the role of the organizational executive. Should be taken during student's last spring semester.

**MIS 5113 - Introduction to Business Analytics**

**3 (3-0)**

**~~Prerequisite(s): Consent of the Graduate Coordinator.~~**

This course provides an overview of the business analytics ecosystem with introductions on three types of analytics: descriptive, predictive, and prescriptive. Applications and tools of business analytics are the focus. In addition, data foundations, as well as big data concepts, are also discussed.

### MKTG 5513 - Graduate Seminar in Marketing

3 (3-0)

~~Prerequisite(s): BUAD 5006 or MKTG 3723 or equivalent and consent of the Graduate Coordinator.~~

An intensive study of specific marketing concepts, theories, and strategies used to market goods and services. Emphasis is placed on reading current journal articles and other related marketing publications.

### M.A. in Business Analytics, M.B.A.

#### Common Body of Knowledge Requirement

The common body of knowledge (CBK) represents the minimum core of knowledge which must be attained prior to beginning graduate study in business. The CBK is composed of 27 semester hours of undergraduate course work representing each of the major business disciplines. The required CBK courses are listed below.

- ACCT 2143 Financial Accounting 3 hrs.
- ACCT 2243 Managerial Accounting 3 hrs.
- BUAD 3033 Business and Economic Statistics 3 hrs.
- ECON 2333 Macroeconomics 3 hrs.
- ECON 2433 Microeconomics 3 hrs.
- FINC 3733 Business Finance 3 hrs.
- MGMT 3013 Organizational Behavior 3 hrs.
- MIS 3003 Management Information Systems 3 hrs.
- MKTG 3723 Principles of Marketing 3 hrs.

In most cases, students who have earned a bachelor's degree in business administration will have satisfied the entire CBK. Students who have had no previous course work in business can have

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portions of the CBK waived with other previous course work and/or relevant work experience or by equivalency testing. The specific CBK courses required will be determined by the Graduate Coordinator and discussed with each student in an initial meeting. Alternatively, the entire CBK can be satisfied by completing the six-hour graduate course: BUAD 5006-Foundations for the MBA.

#### MBA in Business Analytics Course Work Requirements

The total number of semester hours of course work required to earn the MBA degree depends on the undergraduate background of each MBA student. **Students entering the MBA program who have a Bachelor of Business Administration (BBA) that satisfies the Common Body of Knowledge (CBK) must take the required 11 MBA courses or 33 credit hours. Students entering the MBA program who do not have a BBA that satisfies the CBK requirement, or their undergraduate background does not satisfy the CBK requirement must take the six-credit hour leveling course BUAD 5006 in their first semester and can take graduate level business courses concurrently. Students whose undergraduate background does not satisfy the CBK requirement must take the six-credit hour leveling course plus the required 11 MBA courses.** ~~All students entering the MBA Program must:~~

~~Satisfy the Common Body of Knowledge (CBK) requirement before beginning graduate-level course work, and~~

~~Complete the MBA core course work specified for the MBA program.~~

~~Once the CBK requirement has been satisfied, the graduate student may begin taking the graduate level courses for the MBA degree.~~

#### MBA in Business Analytics

Each student will take 8 required graduate courses (24 semester hours) plus 3 graduate Business Analytics electives (9 semester hours) for a total of 33 semester hours.

- ACCT 5213 - Cost Analysis and Control

3 (3-0)

~~Prerequisite(s): BUAD 5006 or ACCT 2143 and 2243 or equivalent and consent of the Graduate Coordinator.~~

Management control systems, profit performance, standard and direct costing, investment control, and long-range planning.

- BUAD 5603 - Advanced Applied Business Statistics

All proposed changes are marked as such: deleted items are marked with a strikethrough line and new items are in bold and underlined. Italicized wording is justification or clarification from the proposing department/college.

3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~

The course teaches students the application of statistical methods and interpretation of statistical analysis. The statistical methods include descriptive statistics, one-and two-sample test, ANOVA, correlation, linear and multiple regression, and analysis of categorical data. The course gives students the statistical background to analyze data to solve business problems.

- ECON 5143 - Data Modeling and Forecasting

3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~

This course teaches students to analyze and model time series data. Students will analyze data, create forecast models, assess forecast models, and forecast future data values. This includes learning about autoregressive models, autoregressive moving average models, the ARIMA model, conditional heteroscedasticity models, vector autoregressive models, and vector error correction models. These methodologies can be used to forecast business data and data from other areas.

- FINC 5713 - Financial Administration

3 (3-0)

~~Prerequisite(s): BUAD 5006 or BUAD 3033 and FINC 3733 and consent of the Graduate Coordinator.~~

Theoretical and procedural consideration in administering business firm financial planning, fund raising, and controlling of firm's finances. Specific emphasis is given to capital budgeting and cost of capital.

- MGMT 5443 - Current Issues in Organizational Behavior

3 (3-0)

~~Prerequisite(s): BUAD 5006 or MGMT 3013 or equivalent and consent of the Graduate Coordinator.~~

Behavioral factors relating to issues such as automation, ethics, labor-management relations, and similar problems, with emphasis upon research and current literature.

- MGMT 6883 - Graduate Seminar in Business Policy

3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~



Analytical study of business decision making, the creation of business strategy, and the creation of sound business objectives and policies. Takes an integrating or interdisciplinary approach to the role of the organizational executive. Should be taken during student's last spring semester.

- MIS 5113 - Introduction to Business Analytics  
3 (3-0)

~~Prerequisite(s): Consent of the Graduate Coordinator.~~

This course provides an overview of the business analytics ecosystem with introductions on three types of analytics: descriptive, predictive, and prescriptive. Applications and tools of business analytics are the focus. In addition, data foundations, as well as big data concepts, are also discussed.

- MKTG 5513 - Graduate Seminar in Marketing  
3 (3-0)

~~Prerequisite(s): BUAD 5006 or MKTG 3723 or equivalent and consent of the Graduate Coordinator.~~

An intensive study of specific marketing concepts, theories, and strategies used to market goods and services. Emphasis is placed on reading current journal articles and other related marketing publications.

13. This is a non-voting information item. Dr. Ziegler spoke about the decision process and indicated GPA's will not be printed on diplomas.

### McAda Graduate School

#### Graduate Honor Cords Effective December 2023

*Dr. Ziegler made the motion to adopt the changes to Graduate Honor Cords. The item was sent to electronic vote pending data collection.*

The Graduate Council voted by electronic vote to award Graduate Honor Cords to our December Graduates at graduation.

Adjournment:

This meeting also included December's Academic Council agenda, which directly followed November's Academic Council agenda discussion. There being no other business, the meeting was adjourned for both agendas at 2:48 p.m.

Respectfully submitted,  
Melissa Boerma  
Assistant to the Provost