Graduate Record 87B

August 2020

GRADUATE COUNCIL MEMBERSHIP 2019-2020

Patrick J. Bateman Management WCBA Grad Program Director Christopher Bellas Criminal Justice BCHHS CGS Committee

Jonathan Cambouris History Student Representative

Lauren Cummins Teacher Education BCOE CGS Committee

Kendra Fowler Marketing WCBA CGS Committee

Paul Louth Dana School of Music CCA&C CGS Committee

Christine McCullough Art CCA&C Grad Program Director

Valerie O’Dell Nursing BCHHS Graduate Program Director

Tomi Ovaska Economics CLASS CGS Committee

Errek Pham Biological Sciences Student Representative

Sal Sanders Dean of Graduate Studies

Dolores Sisco American Studies CLASS Grad Program Director

Virgil Solomon Mech and Indus Engineering STEM CGS Committee

Mark Womble Biological Sciences STEM Grad Program Director

Graduate Council Chair: Mark Womble

Graduate Council Secretary: Kendra Fowler

Graduate Curriculum Committee Chair: Virgil Solomon

Admission and Appeals Committee: Dolores Sisco

Assistantship Allocation Chair: Committee tabled

Exceptions Chair: Sal Sanders

Grievance Committee Chair: Christopher Bellas

Graduate Recruitment & Retention Chair: Committee tabled

Policy Committee Chair: Committee tabled

Graduate Curriculum Committee Chair— Virgil Solomon, Mechanical Engineering

membership: Daniel Ayana, History

Christopher Bellas, Criminal Justice and Forensic Sciences

M. Kathleen Cripe, Teacher Education

Christine McCullough, Art

Faramarz Mossayebi, Electrical & Computer Engineering

Ying Wang, Marketing

Admission and Appeals Committee Chair-- Dolores Sisco

membership: Rebecca Curnalia, Communication

Karen Larwin, Edu Leadership

Alina Lazar, Computer Science and Information Systems

Exceptions Committee Chair—Sal Sanders

membership: Mark Womble, Biological Sciences (Graduate Council Chair)

Matthew Paylo, Counseling

Virgil Solomon, Mechanical Engineering (Graduate Curriculum Committee Chair)

Graduate Studies Student Advisory Council:

Matthew O’Dell, WCBA

Errek Pham and Mykaela Wagner, STEM

Alena Burzynski and Lauren Harrold, BCHHS

Megan Miller, BCOE

Marty Moss and Therese DeGenova, CCCA&C

Brian Duricy, Jonathan Cambouris and Jacob Nawiene, CLASS

**GRADUATE FACULTY MEMBERSHIP**

**CATEGORY 1 MEMBERS approved 2019-2020**

Farzad Ahmadi

Mari Alschuler

Corey Andrews

Rebecca Barnhouse

Christopher Bellas

Ewelina Boczkowski

S. Cory Brozina

Kyosung Choo

Kelly Colwell

Rebecca Curnalia

Richard Deschenes Jr.

Thomas Diggins

Stephen Flora

Neil Flowers

Amy Fluker

Douglas Genna

Randall Goldberg

David Griswold

Tiffany Hughes

Jalal Jalali

Thomas Leary

Hae-Jong Lee

J.Paul Louth

Thomas Madsen

Stefan Moldovan

David Morgan

Faramarz Mossayebi

Richard Rogers

Darrell Wallace

Susan Wright-Clutter

**GRADUATE COUNCIL POLICY CHANGES 2019-2020**

**Change to Graduate College Mission Statement**

The Graduate College mission statement was changed to the following: The College of Graduate Studies prepares diverse and highly skilled professionals, leaders, collaborators and innovative thinkers through excellence in education, research and creative works.

**Changes to Graduate Council Committees**

The following changes were made to the Graduate College committees. The Assistantship Allocation committee was deactivated. The Graduate Recruitment and Retention and the Policy Committees were tabled to be reevaluated next year. A task force will be created, if warranted.

**Change to Academic Suspension Policy**

The 1-year wait requirement for an academically suspended student to apply to another graduate program was removed.

**Creation of Graduate College External Advisory Committee**

Dean Sanders created a Graduate College External Advisory Committee to provide feedback to the college.

**Recommendation for Graduate-level Syllabi**

A recommendation was made to include the maximum number of C grades policy, and the graduation application requirement to graduate-level course syllabi.

**Change in Funding for Graduate Assistants, Graduate Assistant Interns, and Teaching Assistants**

The compensation of GA, GRA, GA/I and TA positions was changed to include a stipend and instructional fees to complete a single degree program (up to 18 s.h. per semester and up to 12 s.h. for the summer term), student transportation fee, out-of-state surcharge and music performance fees (if applicable)**.**

**Use of GA Allocation to Recruit Highly Qualified International Applicants**

For a trial period of one year, the International Programs Office (IPO) will identify highly-qualified international students for a set number of assistantships in each college.

**Academic Senate Shared Governance**

It was agreed that the Dean of the Graduate College would represent Graduate Council at the Academic Senate meetings. Graduate Council minutes will be completed within a week and once approved sent to Academic Senate for transparency and to highlight the Graduate Council’s activities.

**College of Graduate Studies made the following adaptations in response to the global coronavirus pandemic:**

**Change to Grading Option Change Policy**

For spring 2020, graduate students may be permitted to change course grading options to  credit/no credit. A CR/NC grade falls under the same policy pertaining to C grades.

**Change to Official Transcripts Requirements**

Domestic students are requested to have official transcripts sent to the College of Graduate Studies electronically.  Unofficial transcripts will now be accepted for the purpose of admission decisions. Official transcripts will be required to be submitted to register for the spring semester of 2021.

**Change to GRE Requirement**

A blanket waiver was approved by the Graduate Council Exceptions Committee for the GRE requirement in countries where it is not available at this time.

**Acceptance of Duolingo (DET) Test Scores**

We will accept the Duolingo English Test (DET) in addition to the TOEFL and IELTS tests.

**Study Abroad Credit and Transcripts**

The study abroad official transcript requirement was aligned with the existing international transcript policy (US citizens). Original transcripts from the institution where study abroad courses were completed will not be required when the number of credits is 24 or less semester hours and the credits have been accepted and are indicated on the official transcript of a regionally accredited college or university.

**EXCEPTIONS COMMITTEE REPORT 2019-2020**

The Graduate Council Exceptions Committee unanimously agreed to grant two exceptions – waiving the GRE requirement for an applicant seeking admission to the College of Graduate Studies – Doctor of Philosophy in Health Sciences program. The exception was requested by Dr. Ken Learman.

The Graduate Council Exceptions Committee unanimously agreed to grant an exception – waiving the GRE requirement for an applicant with a GPA below 2.70, seeking admission to the College of Graduate Studies – Master of Music Performance program. The exception was requested by Dr. Ewelina Boczkowska.

The Graduate Council Exceptions Committee unanimously approved a part-time faculty member with category 2 graduate faculty status to serve as the advisor for a music student’s master’s thesis.

The Graduate Council Exceptions Committee unanimously approved a blanket waiver for the GRE requirement in countries where it is not available at this time because of the Coronavirus pandemic.

The Graduate Council Exceptions Committee has unanimously approved the MBA Program Response to COVID-19 - Revised Admission Criteria

**ADMISSION AND APPEALS COMMITTEE REPORT 2019-2020**

The Admission and Appeals committee unanimously approved an appeal of a terminated Graduate Scholarship award.

The Admission and Appeals Committee approved three academic suspension appeals. The students were academically suspended from the following programs: Master of Business Administration, Master of Social Work, Mechanical Engineering and Counseling. The committee consulted with the Program Director from each program and found that the faculty supported readmission.

The Admission and Appeals Committee also heard three scholarship appeals from the MBA program. Based on the circumstances and the requirements of the scholarship, two scholarships were reinstated and one appeal was denied.

**CURRICULUM COMMITTEE REPORT 2019-2020**

**Admission Changes 2019-2020**

2019-20:1Master of Science in Biological Sciences. Change in admission requirements will reduce the number of specifically required undergraduate Chemistry and Physics courses and will instead allow students to substitute other scientifically-related courses. This will enable students from a variety of undergraduate majors to be admitted into the program. In particular, the proposed changes will make it easier for international students or students from related scientific disciplines to meet the requirements for regular admission into the Biology graduate program. (Change of admission requirements.)

2019-20:16 Master of Business Administration. (Change in admission requirements, learning outcomes and degree requirements).

2019-20:118 Program Change. Nurse Anesthetist. Changes to admission requirements and CIP Code.

**New Graduate Courses 2019-2020**

2019-20:5 OMBA 6922 *Cost Based Decision Making.* Insights into a company’s product costs (including those considered direct and indirect), its fixed and variable costs (and ways to identify these) and an understanding of its controllable and non-controllable costs all are necessary to effectively manage an organization. This course focuses on these concepts and how they can be used when making business decisions.3 s.h. (Add a new 6900 level course).

2019-20:4 OMBA 6921 *Industrial Economics.* Students will learn to analyze and understand the impact economic factors (e.g., information, consumer behavior, supply and demand) have on shaping markets and industries. Using this knowledge, students will be capable of assessing the different types of economic strategies (e.g., product differentiation, pricing, advertising and signaling) an organization can employ to gain market power to realize economic proﬁts. 3 s.h. (Add a new 6900 level course).

2019-20:6 OMBA 6923 *Corporate Financial Management.* Participants will gain an understanding of financial analysis techniques are used when evaluating businesses, projects, budgets and other related decisions. Participants will develop a set of analytical tools for conducting historical analysis (analysis of the income statement, cash flow statement, balance sheet, interpretation of various financial ratios) as well tools associated with capital budgeting, capital structure and cost of acquiring capital. 3 s.h. (Add a new 6900 level course).

2019-20:7OMBA 6940 *Leadership.* The purpose of this course is for you to acquire theoretical and practical knowledge about management and leadership so that you can lead and follow more effectively and ethically. It explores management and leadership situations with the intent to extract lessons and insights which can be applied to your own approaches to managing, leadership, and followership. 3 s.h. (Add a new 6900 level course).

2019-20:8OMBA 6941 *Managing Organizational Talent.* The study of organizational behavior aims to help students to predict, explain, and manage individual and group behavior in the workplace to achieve organizational objectives. The objective of this course is to provide students with an overview of the organizational behavior literature, research findings, and applications. Students are expected to think about, discuss, debate, analyze, and solve issues relating to organizational behavior. At the end of the semester, students will be exposed to a broad range of management theories and expected to apply those theories to a variety of organizational contexts and situations. 3 s.h. (Add a new 6900 level course).

2019-20:9 OMBA 6944 *Operations & Supply Chain Management.* Operations and Supply Chain Management (OSCM) examines the functions of sourcing, materials management, operations planning, distribution, logistics, retail, demand forecasting, order fulfillment, and more in a broad area that covers both manufacturing and service industries. In this course, students will learn what functions OSCM performs, why it is important, and how to make business decisions in the field of OSCM. We introduce both fundamental concepts and quantitative models of operations management in the supply chain framework. Topics covered in detail are quality control and management, forecasting techniques, inventory management, aggregate planning, etc. The objective is to help students develop a systematic working knowledge of the concepts and methods related to designing and managing operations in a supply chain. 3 s.h. (Add a new 6900 level course).

2019-20:10OMBA 6947 *Managing Information & Technology.* No matter the industry, nor department within a company – information and technology play a key part in an organizations ability to implement its strategy. In this course you will obtain knowledge that will help you not only to better understand, but be able to more effectively select, implement, and manage these resources within your organization. 3 s.h. (Add a new 6900 level course).

2019-20:11OMBA 6948 *Project Management****.*** Project Management deals with seeking new methods of planning, organizing, and controlling non-routine tasks. The management of a project differs in several ways from management of a typical enterprise. The goal of a project team is to accomplish its prescribed mission and then disband; though this is easier said than done. Project management is becoming increasingly more important in today’s world as organizations face more intense competition in delivering products and services to market more quickly. This course covers some of the issues related to managing projects in organizations. The tools and techniques taught in this course are transferrable to any industry as well as personal projects. You will develop an understanding of the role of a Project Manager in an organization, the tools and techniques to successfully manage projects, and how to deal with problems often faced when managing projects. The concepts learned can also help prepare you for taking the PMP (Project Management Professional) or CAPM (Certified Associate in Project Management) certification exams. 3 s.h. (Add a new 6900 level course).

2019-20:12*OMBA 6953* Consumers in a Digital World*.* An examination of consumers and consumer behavior in a digital world. Students study the consumer decision making process that individuals or businesses engage in during the evaluation, acquisition, use of, and disposition of goods and services. Emphasis is placed on the role that technology plays in developing actionable plans to address consumers’ wants and needs of today and anticipate those of tomorrow. 3 s.h. (Add a new 6900 level course).

2019-20:13*OMBA 6954* Digital Marketing*.* In-depth investigation into the development and evaluation of interactive and marketing strategies and tactics. 3 s.h. (Add a new 6900 level course).

2019-20:14OMBA 6955 *Marketing Strategy.* Students explore the development of marketing strategy via segmentation, targeting, and positioning, and the support of the marketing strategy through integrated product, price, place, and promotional tactics. 3 s.h. (Add a new 6900 level course).

2019-20:15 OMBA 6975 *Business Policy & Strategy.* Strategy involves thinking at the enterprise level. Successful strategy design and implementation requires a holistic understanding of the threats and opportunities in the firm’s external environment, and of its internal resources and capabilities. It also requires a synthetic view on how the firm integrates functional activities and cross-functional business processes. This course is designed to develop such an integrative view of the firm and its environment, along with appropriate analytical skills. 3 s.h. (Add a new 6900 level course).

2019-20:32 PHYT 8810 *Human Gross Anatomy*. Knowledge of anatomy is essential in the practice of healthcare. In this course we will concentrate on the study of human gross anatomy, which includes the structure of the body and body parts that can be studied with the unaided eye. This course will include examination of the musculoskeletal, nervous and circulatory systems. This course will primarily encompass structural and functional relationships with clinical perspectives that relate to healthcare. Prereq.: BIOL 3705. 6 s.h. (Add a new 8900 level course.)

2019-20:66 THTR 6900 *Topics in Theatre.* Studio/lecture course designed to engage students in graduate-level study of an advanced topic in applied theatre. May be repeated for a maximum of 9 s.h. if the topic is different.. Prereq.: Graduate level and permission of the instructor 3 s.h. (Add a new 6900 level course.)

2019-20:90 TCED 6940 *Foundations of STEM Education Theory to Practice*. Introduction to STEM education. Study of the history, foundation, and underlying principles of STEM education. Additional topics include: an inclusive mission engaging diversity in STEM education, STEM careers, and STEM as a part of the P-12 curriculum. Prereq.: None. 3 s.h. (Addition of a new 6900 level course.)

2019-20:91 TCED 6941 *Engineering and Technology Inquiry.* Introduction into principles of engineering and technology, with inquiry-based instruction using projects to solve engineering related problems, for the implementation in to P-12 classroom. Prereq.: TCED6940. 3 s.h. (Addition of a new 6900 level course.)

2019-20:92 TCED 6942 *Environmental Inquiry*. This course will focus on the fundamentals of environmental engineering as well as sustainable storm water management techniques and open channel flow hydraulics. The topics will include energy and material balances, ecosystems, sustainability, water quality regulations and standards, stream hydraulics, introduction to water supply and treatment and wastewater treatment and techniques of solid waste and hazardous waste management. Prereq.: TCED 6940. 3 s.h. (Addition of a new 6900 level course.)

2019-20:93 TCED 6943 *STEM Integration in the P-12 Classroom*. STEM integration in the P-12 Classroom explores theory and practices for teachers to incorporate STEM content and activities into their own classroom. Students will not only study these theories, they will design and implement STEM content into their own classroom. Prereq.: None. 3 s.h. (Addition of a new 6900 level course.)

2019-20:94 TCED 6944 *A Global Perspective*. Understanding of skills needed to compete in the global economy, and how STEM contributes to this. Focus on 21st century skills, persistence, inquiry, communications, creativity and collaboration. P-12 STEM project development. Prereq.: None. 3 s.h. (Addition of a new 6900 level course.)

2019-20:95 TCED 6945 *STEM Leadership*. Focus on implementation of a STEM program to prepare students with STEM skills for college and career success. Physical environment, necessary resources, administrative and community buy-in and support. Grant writing for STEM education. Prereq.: None. 3 s.h. (Addition of a new 6900 level course.)

2019-20:71 PHYT 8801 *Clinical Pathology 2* . Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment. 3 s.h. (Addition of a new 8900 level Course.)

2019-20:73 PHYT 8942 *Mental and Behavioral Aspects of Healthcare*. This course will examine various aspects of mental health and behaviors that may impact healthcare and wellness, both positively and negatively, using the ICF model. An in-depth examination of current theory and research associated with major psychological . disorders taken from the DSM-IV will be reviewed. Discussions and current criticism of genetic factors, ethics, the healthcare system, and treatment options will be further examined. The student will develop a comprehensive understanding regarding therapeutic approaches towards mental health issues that can maximize health related outcomes. 3 s.h. (Addition of a new 8900 level Course.)

2019-20:74 PHYT 8962 *Mentored Instruction*. Course is taken on an individual basis with an assigned faculty member during which the student assists in all teaching aspects of the undergraduate or entry-level course selected by the student. Individualized mentoring in the teaching-learning process is the focus of the course. Student will assist in course planning, syllabi construction, student facilitation, and student assessment.3 s.h. (Addition of a new 8900 level course.)

2019-20:75 PHYT 8990 *Graduate Research in Health Sciences*. A graduate research experience that will allow the student the opportunity to contribute to research that is directed by an individual faculty mentor and refine their thinking on research design and implementation. This course will facilitate the student’s formulation of a potential dissertation topic or provide opportunity to create foundational work for their dissertation. 1-6 s.h. (Addition of a new 8900 level course.)

2019-20:76 PHYT 8995 *Dissertation in Health Sciences*. The culminating research experience of the Ph.D. program in Health Sciences. The student is expected to design, propose, conduct, analyze, report and defend a topic that is germane to their area of interest and expertise. This project should be meaningful and contribute to the body of literature in their profession. Prereq.: Completion of doctoral comprehensive examinations. 1-9 s.h. (Addition of a new 8900 level course.)

2019-20:77 SCWK 7020 Spe*cial Topics Elective in Social Work*. An examination of various social work topics and issues of both current and long-standing interest. Prereq.: MSW student. 1-6 s.h. (Addition of a new 6900 level course.)

2019-20:78 SCWK 7021 *MSW Independent Study.* This course involves study under the personal supervision of a faculty member with the approval of the MSW Coordinator. The course demands that student and faculty member choose a topic related to the Social Work field. For successful completion students will tie the topic to at least three different CSWE educational competencies. Prereq.: MSW student. 1-6 s.h. (Addition of a new 6900 level course.)

2019-20:66 THTR 6900 *Topics in Theatre.* Studio/lecture course designed to engage students in graduate-level study of an advanced topic in applied theatre. May be repeated for a maximum of 9 s.h. if the topic is different.. Prereq.: Graduate level and permission of the instructor 3 s.h. (Add a new 6900 level course.)

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2019-20:74 PHYT 8962 *Mentored Instruction*. Course is taken on an individual basis with an assigned faculty member during which the student assists in all teaching aspects of the undergraduate or entry-level course selected by the student. Individualized mentoring in the teaching-learning process is the focus of the course. Student will assist in course planning, syllabi construction, student facilitation, and student assessment.3 s.h. (Addition of a new 8900 level course.)

2019-20:75 PHYT 8990 *Graduate Research in Health Sciences*. A graduate research experience that will allow the student the opportunity to contribute to research that is directed by an individual faculty mentor and refine their thinking on research design and implementation. This course will facilitate the student’s formulation of a potential dissertation topic or provide opportunity to create foundational work for their dissertation. 1-6 s.h. (Addition of a new 8900 level course.)

2019-20:76 PHYT 8995 *Dissertation in Health Sciences*. The culminating research experience of the Ph.D. program in Health Sciences. The student is expected to design, propose, conduct, analyze, report and defend a topic that is germane to their area of interest and expertise. This project should be meaningful and contribute to the body of literature in their profession. Prereq.: Completion of doctoral comprehensive examinations. 1-9 s.h. (Addition of a new 8900 level course.)

2019-20:77 SCWK 7020 Spe*cial Topics Elective in Social Work*. An examination of various social work topics and issues of both current and long-standing interest. Prereq.: MSW student. 1-6 s.h. (Addition of a new 6900 level course.)

2019-20:78 SCWK 7021 *MSW Independent Study.* This course involves study under the personal supervision of a faculty member with the approval of the MSW Coordinator. The course demands that student and faculty member choose a topic related to the Social Work field. For successful completion students will tie the topic to at least three different CSWE educational competencies. Prereq.: MSW student. 1-6 s.h. (Addition of a new 6900 level course.)

2019-20:100 FNUT 6972 *Maternal and Child Nutrition Clinical*. Selected supervised experiential learning providing opportunities for application of the nutritional care process to the maternal and child population. One hour discussion weekly and eight hours of supervised experiential learning for a total of 60 hours. Prereq.: FNUT 4872. 3 s.h. (Addition of a new 6900 level course.)

2019-20:101 FNUT 6973 *Nutrition and Aging Clinical*. Supervised experiential learning providing opportunity for application of advanced dietetics processes in a long-term care setting. One hour of discussion and twelve hours (12) of supervised experiential learning weekly. Prereq.: FNUT 4873. 3 s.h. (Addition of a new 6900 level course.)

2019-20:104 PHYT 8970 *Scientific Writing in Health Sciences*. This course will address four major areas of written communication for the scientific process: institutional review board, grant writing, thesis/dissertation, and writing for manuscript submission. This course will engage the student in the activity of writing clear and concise documents that are readable to large diverse audiences while remaining technically proficient. The course will address common pitfalls to written communication and will culminate in a project that is peer reviewed. Prereq.: None. 3 s.h. (Addition of a new 6900 level course.)

2019-20:117 OMBA 6992 *Planning and Fiscal Management in Health and Human Services*. his course examines the principles of strategic planning and fiscal management in relation to Health and Human Services Organizations. Emphasis is placed on the specific role of the program director in leading and managing an organization in collaborative efforts and community planning. The course prepares the student to analyze the impact of fiscal management on resource allocation, personnel management, decision making, and future planning through the development of an individualized strategic plan. Prereq.: Graduate standing. 3 s.h. (Addition of a new 6900 level course.)

2019-20:120 OMBA 6962 *Health Care Reform*. The purpose of the course is to give students the skills necessary to understand all aspects of health and health care especially those related to Health Care Reform and recent and previous legislation. It will examine the supply of and demand for health services, and the analysis of health care systems and current, previous and potential future legislation relevant to health care reforms. Cross listed with HHS 6962. Prereq.: Enrollment in OBMA or MHHS programs. 3 s.h.. (Add a new 6900 level course.)

**Deleted Graduate Courses 2019-2020**

2019-20:2 BIOL 5861 *Animal Behavior.* (Deletion of a 5800 swing-level course).

2019-20:3 BIOL 6963L *Virology Lab.* (Deletion of a 6900 level course).

### 2019-20:33 PHYT 8924 *Histology*. (Delete an 8900 level course.)

### 2019-20:34 PHYT 8926 *Imaging and Lifespan Pathology for PT*. (Delete an 8900 level course.)

### 2019-20:35 PHYT 8930 *Clinical Decision Making 4: Advanced Cases*. (Delete an 8900 level course.)

### 2019-20:36 PHYT 8932 *Pharmacology for PTs*. (Delete an 8900 level course.)

### 2019-20:37 PHYT 8934 *Clinical Foundation Skills 2*. (Delete an 8900 level course.)

### 2019-20:38 PHYT 8938I *Special Topics-Board Review*. (Delete an 8900 level course.)

### 2019-20:69 KSS 6930 *Lab Instrumentation*. (Delete a 6900 level course.)

### 2019-20:81 MKTG 6949 *International Marketing Management.* (Delete a graduate course.)

### 2019-20:82 MKTG 6968I *Special Topics in Marketing Effective Data Interpretation and Reporting.* (Delete a graduate course.)

### 2019-20:83 MKTG 6968K *ST Strategies for Exec Success.* (Delete a graduate course.)

### 2019-20:85 CHEM 5831 *Inorganic Chemistry Laboratory.* (Delete a graduate course.)

### 2019-20:106 TEMC 6940 *Inquiry into Current Issues in Middle-Level Education.* (Delete a graduate course.)

### 2019-20:107 TEMC 6954 *Middle School: Theory, Research, and Practices.* (Delete a graduate course.)

### 2019-20:108 TEMC 6955 *Field Experience: Middle Years School/Community Collaboration.* (Delete a graduate course.)

**Courses approved for expediated/bulk deletion:**

CHEN 5800B : Special Topics Separations Lab

CHEN 5800C : Special Topics Reactors Lab

CHEN 5800F : Special Topics Corrosion Engineering

CHEN 5800K : Special Topics Measurements and Instrumentation

CMST 5898A : Sem Comm in Amer Polit Envir

CMST 5898B : Sem Sports Comm and Society

CMST 5898C : Seminar International Comm

CMST 5898E : Sem Expl Diff American Society

CMST 5898F : Seminar Global Media Systems

HEPE 6945 : Technological Integration in Physical Education

EDTC 5899 : Integration of Instructional Computing

CMST 5898O : Seminar Ethnography

CMST 5898N : Seminar Communication and Leadership

PHYT 8910 : Critical Inquiry 2

SED 6999 : Thesis

SPED 6999 : Field Experiences Autism/Related Disorders

COUN 6974 : Case Studies in School Guidance and Field Experience in Community Social Agencies

COUN 7017 : Group Procedures in Counseling

COUN 7050 : College Counseling Internship

COUN 7060 : Thesis Research

EDTC 6905 : Technology in Instructional Settings

EDTC 6920 : Instructional Design

EDTC 6930 : Instructional Multimedia Authoring

EDTC 6940 : Distance Education and Online Information Dissemination

EDTC 6945 : Action Research in Educational Technology

EDTC 6950 : Principles, Processes, and Supervision of Networking

EDTC 6960 : Educational Technology and Professional Development

EDTC 6965 : Technology Planning for Instructional Environments

EDTC 6985 : Portfolio in Educational Technology

EDTC 6990 : Practicum in Educational Technology

EMCE 5900A : Workshop Early Literacy Warm Up: Preparing for our Foundation

EMCE 5900B : Workshop Assessment

EMCE 5900C : Workshop Genre Study

EMCE 5900D : Workshop Content Focus

EMCE 5900E : Workshop Professional Development

EMCE 5900F : Workshop Diverse Learner Class

EMCE 5900G : Workshop Curriculum Map Gr 1

EMCE 5900H : Workshop Curriculum Map Gr 4-5 Mathematics

EMCE 5900I : Workshop Art of Teaching and Instruction

EMCE 5900J : Workshop Curriculum Map Gr 2

EMCE 5900K : Workshop Moving from RTI in Theory

EMCE 5900L : Workshop Co Teaching

EMCE 5900M : Workshop Model Classrooms in a Balanced Literacy Framework

EMCE 5900N : Workshop Formative Assessment

EMCE 5900O : Workshop K to 3 Academy

EMCE 5900P : Workshop Mean Tech Int for Elem 3

EMCE 5900Q : Workshop Literacy Learn Principals

EMCE 5900R : Workshop Structured Language Instruction 1

EMCE 5900S : Workshop Language Instruction II

EMCE 5900T : Workshop Mentoring for Resident Educ

EMCE 5900U : Workshop Analyzing Plan Guide Readng

EMCE 5900V : Workshop Sup Guide Rd thru Shared Rd

EMCE 5900W : Workshop Integrated Units 1

EMCE 5900X : Workshop Redefining Ohio

EMCE 5900Y : Workshop Curriculum Map Gr 4-5 English

EMCE 5900Z : Workshop Impact 1

EMCE 5901 : Early/Middle Childhood Education Workshop

EMCE 5901A : Workshop Curriculum Map Gr 5-8 Math

EMCE 5901B : Middle School Science and Technology

EMCE 5901C : Workshop Integrating World Music El Mid Curriculum

EMCE 5901D : Workshop 4 to 8 Academy

EMCE 5901E : Workshop Smartboard Training

EMCE 5901F : Workshop Gifted Learners: Aligning Purposeful Instruction

EMCE 5901G : Workshop Curriculum Map Gr 3 Reading

EMCE 5901H : Workshop Get Wired With Technology

EMCE 5901I : Workshop Literacy Connection

EMCE 5901J : Literacy Collaboratve Intermed

EMCE 5901K : A Balanced Literacy Program

EMCE 5901L : Workshop K to 12 Gifted

EMCE 5901M : Guid Rd Rd Proc K to 4

EMCE 5901N : Entry Year Tch Induction Program

EMCE 5901O : Workshop Mentoring and Transition Program

EMCE 5901P : Workshop Social Studies Content Area Readng

EMCE 5901Q : Workshop Gifted Learners: Aligning Purposeful Instruction

EMCE 5901R : Workshop Professional Learning Comm

EMCE 5901S : Coaching Effective Assessment Practice

EMCE 5901T : Coaching in Diverse Classrooms

EMCE 5901U : Advanced Literacy Research

EMCE 5901V : Bridges to Diversity Leader Forum

EMCE 5901W : Workshop Change for Common Cause

EMCE 5901X : Curr Created Conceptually

EMCE 5901Y : Focus Adolescent Grade 3 to 6

EMCE 5901Z : Focus Adolescent Grade 7 to 10

EMCE 5902 : Early/Middle Childhood Education Workshop

EMCE 5902A : Workshop Meaningful Technology Integration with Common Standards in Math

EMCE 5902B : Workshop Meaningful Technology Integration with Common Core Standards in Science

EMCE 5902C : Workshop Meaningful Technology Integration with Common Core Standards in Social Studies

EMCE 5902D : Grades 3-5 Leveled Literacy Intervention (LLI)

EMCE 5902E : Workshop Curriculum Mapping

EMCE 5902F : Workshop Step 1: Foundations of Reading Instruction

EMCE 5902G : Workshop Integrating Technology

EMCE 5902H : Adolescent Literacy

EMCE 5902J : Comp Coherent Reading Program

EMCE 5902K : SIRI Adolescent Literature Gr 4 to 6

EMCE 5902L : Engaging Fun Interest Soc Stds

EMCE 5902M : NBPTS Pre-Candidacy Workshop

EMCE 5902N : Bridging Preschool to K

EMCE 5902O : Implmnt Invest Math

EMCE 5902P : Workshop Adolescent Literacy Content Area Part 2

EMCE 5902Q : Workshop Literacy Lead Way in 21st Century

EMCE 5902R : Workshop Writing Demands of Common Core Assessment

EMCE 5902S : Workshop ELA Lit Cont Stand Hist SS

EMCE 5902T : Building a Better Reader

EMCE 5902U : Developmental Writing K to 4

EMCE 5902V : OMAP Module 3 Data Analysis

EMCE 5902W : OMAP Math Acad Proj Algebra Md

EMCE 5902X : SIRI Follow Up Adolescents Gr 4 to 12

EMCE 5902Y : OMAP Algebra 3 to 6 Follow Up

EMCE 5902Z : Schools and Health

SED 6910 : Supervision Secondary Schools

SED 7025 : Seminar in Secondary Education

SPED 5865A : Educating Children With Autism

SPED 5865B : Lab Ed Child with Autism

SPED 5865C : Structured Lang App

SPED 5865D : Autism Aspergers Syn

SPED 5865E : Prac Autism Asperger

SPED 5865F : Autism Asperger Syn

SPED 5865G : Prac Autism Asperger

SPED 5865H : Workshop Teach OH Module 1C

SPED 5865I : Conceptual Mathematics

SPED 5865J : Summarizng Science Surv Course

SPED 5865K : Conceptual Math Follow Up

SPED 5865L : Workshop Teach OH Module 1A

SPED 5865M : Summarizing Science Follow Up

SPED 5865N : Not Trained Spec Ed What Now

SPED 5865O : Inclusion Practices Second Ed

SPED 5865P : Workshop Teach OH Module 1B

SPED 5870A : Independent St Management

SPED 5870B : Independent St Instr Strat

SPED 5870C : Indep St Transition

SPED 5870D : Indep St Collaboration

SPED 5965A : Workshop Curriculum Instruct Strat

SPED 5965B : Workshop Assessment

SPED 5965C : Workshop Technology

SPED 5965D : Workshop Content Focus

SPED 5965E : Workshop Professional Development

SPED 5965F : Workshop Diverse Learner Class

SPED 5965G : Workshop Coord Collaboration Consult

SPED 5965H : Workshop Teaching Strategies Autism

SPED 5965I : Workshop Trans Plan Social Development and Health

SPED 5965J : Workshop Studies on Mild to Moderate Disabilities

SPED 5965K : Workshop Affects of Emotional Disabilities

SPED 5965L : Workshop Class Management for Diverse Learners

SPED 5965M : Workshop Education Children Autism

SPED 5965N : Workshop Lab Exp Educ Child Autism

SPED 5965O : Workshop Prac 2 Exp Asperger Syn

SPED 5965P : Workshop High Functioning Autism Asperger

SPED 5965Q : Workshop Interventn Remed Lang Dysf

SPED 5965R : Workshop Field Base SPED Intervention

SPED 5965S : Workshop Augmentative Alternatv Comm

SPED 6980 : Topical Seminar in Special Education

SPED 6980A : KSU 5000S Ef Phonics

SPED 6981 : Seminar in Special Education

SPED 6982 : Educational Assessment in Gifted and Special Education

SPED 6984 : Major Concepts and Program Design for Students in Special Education

SPED 6994 : Field Experiences in Early Childhood Special Education

SPED 7021 : Field Experience 1

TCED 5991A : Seminar PLC Univers Desgn Learning

TCED 5991B : Seminar Integrated Technology Tools

TCED 5991C : Seminar Technology

TCED 5991D : Seminar Education Manufacturing Workplace

TCED 5991E : Seminar Tech Topics

TCED 5991F : Seminar Mentor Text Academy MS/HS Grades 6-12

TCED 5991I : Seminar Tech Int Com Core St SSt V

TCED 5991K : Seminar K-12 Specialists' Course of Study

TCED 5991L : Seminar Universal Design for Learning

TCED 5991M : Seminar Value Added

TCED 5992 : Seminar in Teacher Education

TCED 5992B : Seminar Blending Literacy and Science Together with Technology

TCED 5992C : Seminar Co-Teaching in the 21st Century

TCED 5992D : Seminar Google Drive 101

TCED 5992E : Seminar Google Drive 101

TCED 5992F : Seminar Google Sites

TCED 5992G : Seminar Googling with Eric Curts

TCED 5992H : Seminar Introduction to iPads in the Classroom

TCED 5992I : Seminar K-5 ELA with Content Area Integration

TCED 5992K : Seminar K-12 Administrative Leadership Workshop

TCED 5992P : Seminar Writing an O.S.C.A.R.

TCED 5992R : Seminar Make it, Tech it, Take it!

TCED 5992S : Seminar Teaching ELL Students

TCED 5992T : Seminar Teaching 21st Century Gifted Learners

TCED 5992W : Seminar Trauma Informed Care

TCED 5993A : Seminar K12 Google Drive 101

TCED 5993B : Seminar K12 Special Ed

TCED 5993C : Seminar K12 Google Drive 101

TCED 5993D : Seminar 5 to 12

TCED 5993E : Seminar K12 Admin Leader

TCED 5993F : Seminar Mean Tech Int Com Core SS

TCED 5993G : Seminar K12 Google Clsrm Adv Tools

TCED 5993H : Seminar K12 HQPD Gft Srv GenEd Set

TCED 5993I : Seminar K12 Fine Arts

TCED 5993J : Seminar K12 World Languages

TCED 5993K : Seminar K12 Fam Consumer Sci

TCED 5993L : Sem K12 Health Physical Educ

TCED 5993M : Seminar in Teacher Education Action Research to Improve Teaching and Learning

TCED 5993N : Seminar in Teacher Education Teaching Gifted Kids in Today’s Classroom

TCED 5993R : Seminar Preparing our EL Classrooms for 2016-2017

TCED 5993S : Seminar Movers Shakers Literacy 1

TCED 5993T : Seminar Movers Shakers Literacy Lesson Planning

TCED 5993V : Seminar Digging into Ohio’s Accountability Measures

TCED 5993W : Seminar St Lrng Obj Specialist Tch

TCED 5993X : Seminar Assessment Lit ELA Classrm

TCED 6901 : National Board for Professional Teaching Standards (NBPTS) Assessment Center

TCED 6902 : National Board for Professional Teaching Standards (NBPTS) Portfolio Development

TCED 6903 : National Board for Professional Teaching Standards (NBPTS) Advanced Candidacy

TCED 8101 : Adult Learning: Theories and Techniques for College Teaching

### TERG 6970 : Coaching in Diverse Classrooms

### TERG 6971 : Pedagogy of Effective Literacy Instruction

TERG 6972 : Coaching for Effective Assessment Practice

### TERG 6973 : Professional Development in Literacy

### TERG 6974 : Advanced Action Research in Literacy

### TERG 6975 : Internship 1

TERG 6976 : Internship 2

**Changes to Graduate Courses 2019-2020**

2019-20:42 MGT 6926 *Business Analytics*. Application of computer-based, mathematical modeling techniques to support managerial decision making, with emphasis on problem formation, sensitivity analysis, and other aspects of model interpretation. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:43 MGT 6930 *Managing and Leading in Organizations*. Participants will learn principle techniques and develop capabilities to allow them to become better managers. Key to this ability of being a strong manager and leader is an understanding of the interrelationship of organizational functions embodied through organization design, enhancing employee productivity, communication, authority-power relationships, group behavior, and leading organizational change. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:44 MGT 6941 *Managing Organizational* *Talent*. The study of individual and group motivation theories as applied to organizations with the intention of extracting optimum performance. Topics include strategic human resource management, recruitment, selection, employee testing, performance appraisal, and the design of appropriate reward systems. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:45 MGT 6944 *Managing Business Processes*. Participants will learn techniques and develop capabilities that will facilitate the management of business processes through the examination of product design and selection, plant layout, aggregated planning, scheduling and quality control. Prereq.: MGT 6926. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:46 MGT 6945 *Business Process Integration*. This course examines the forces driving enterprise integration as well as the management decisions associated with the design and implementation of enterprise systems. Students successfully completing this course will have a thorough understanding of enterprise integration as well as practical experience configuring and using SAP/ERP, the leading enterprise resource planning system. Prereq.: FIN 6902. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:47 MGT 6946 *Supply Chain Management*. This course covers a number of supply-chain related topics including: Inventory Models (consumption-based planning), Advanced Purchasing exercises, MRP, and Repetitive Manufacturing. Prereq.: MGT 6944. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:48 MGT 6947 *Managing Information & Technology*. Information and technology are indispensable tools for creating business efficiencies, serving customers, and generating business opportunities. With these outcomes in focus, participants will develop capabilities that allow them to better manage the design, implementation, and utilization of information systems to create organizational value. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:49 MGT 6948 *Project Management*. Participants will develop core-capabilities of a project manager, including the ability to plan, schedule, control, allocate resources, and assess performance of organizational projects. By focusing on work breakdown structures, scheduling, PERT/CPM, controlling and managing costs, project termination, and risk management, participants will obtain a working-knowledge of fulfilling the role of project manager. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:50 MGT 6975 *Strategic Management*. With an emphasis on problems of executive management, decision making, and administrative action, participants will develop strategic thinking capabilities through an examination of the design, implementation, and evaluation of business strategy and policy. Must be taken concurrently with MGT 6976. Prereq.: FIN 6923, MGT 6930, MGT 6944, MKTG 6944 Minimum 3.0 GPA. Concurrent: MGT 6976.3.s.h. (Increase course hours to 3 semester hours.)

2019-20:51 MGT 6976 *Strategic Consulting Project*. An applied learning experience in which participants utilize knowledge and capabilities gained throughout the MBA program to engage in collaborative consultation with a business. The focus is on the development of strategic recommendations that will assist the client organization in addressing existing and emerging challenges. Must be taken concurrently: MGT 6975. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:52 MKTG 6943 *Consumer & Product Management*. An applied examination of marketing as a business process by which products are matched with markets and through which transfers of ownership are affected. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:53 MKTG 6975 *Applied Marketing Strategy.* Through applied learning experiences, students develop abilities to analyze markets, plan, design and implement effective marketing strategies in the areas of product, promotion, pricing, and distribution. Emphasis is on the integration of the marketing function with other business activities. Prereq.: MKTG 6943. 3.s.h. (Increase course hours to 3 semester hours.)

2019-20:40 ECON 6921 *Economic Analysis of Markets and Industries.* Participants will learn to analyze and understand the impact economic factors (e.g., information, consumer behavior, supply and demand) have on shaping markets and industries. Using this knowledge, participants will be capable of assessing the different types of economic strategies (e.g., product differentiation, pricing, advertising and signaling) an organization can employ to gain market power to realize economic profits. 3 s.h. (Change in course hours.)

2019-20:56 ACCT 6922 *Cost Based Decision Making*. Insights into a company’s product costs (including those considered direct and indirect), its fixed and variable costs (and ways to identify these) and an understanding of its controllable and non-controllable costs all are necessary to effectively manage an organization. This course focuses on these concepts and how they can be used when making business decisions. 3.s.h. (Change in course title, course description and increase course hours to 3 semester hours.)

2019-20:57 FIN 6912 *Financial Statement Analysis*. This course provides an understanding of ﬁnancial analysis with emphasis upon decision making. Annual reports and mini-cases involving real companies are used to illustrate important concepts and ﬁnancial analysis techniques. Major topics include the analysis of the income statement, cash flow statement, balance sheet, and detailed examination of various financial ratios and their significance. Prereq.: FIN 6902. 2.s.h. (Change in course description.)

2019-20:58 FIN 6923 *Corporate Financial Management*. Participants will gain an understanding of ﬁnancial analysis techniques that are used when evaluating businesses, projects, budgets and other related decisions. Participants will develop a set of analytical tools for conducting historical analysis (analysis of the income statement, cash flow statement, balance sheet, interpretation of various financial ratios) as well as tools associated with capital budgeting, capital structure and cost of acquiring capital. 3.s.h. (Change in course description, prerequisite and increase course hours to 3 semester hours.)

2019-20:22 MUHL 6990 *Thesis 1*.Individual research and writing culminating in the preparation of a master's thesis. Prereq.: Completion of 15 semester hours of coursework. 3 s.h. (Change in prerequisite and semester hours.)

2019-20:23 MUHL 6991 *Thesis 2*.Individual research and writing culminating in the preparation of a master's thesis. Prereq.: Completion MUHL 6990 and approval of thesis proposal by the Dana Graduate Committee. 1-3 s.h. (Change in prerequisite and semester hours.)

2019-20:26 ART 6992A *Interdisciplinary Studio 3 Ceramics.* Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester. Prereq.: ART 6991. 1-6 s.h. (Change in course title, number and type.)

2019-20:27 ART 6992B *Interdisciplinary Studio 3 Digital Media*. Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester. Prereq.: ART 6991. 1-6 s.h. (Change in course title, number and type.)

2019-20:28 ART 6992D *Interdisciplinary Studio 3 Painting*. Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester. Prereq.: ART 6991. 1-6 s.h. (Change in course title, number and type.)

2019-20:29 ART 6992E *Interdisciplinary Studio 3 Photography*. Continuation of AR 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester. Prereq.: ART 6991. 1-6 s.h. (Change in course title, number and type.)

2019-20:30 ART 6992F *Interdisciplinary Studio 3 Printmaking.* Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester. Prereq.: ART 6991. 1-6 s.h. (Change in course title, number and type.)

2019-20:31 ART 6992G *Interdisciplinary Studio 3 Sculpture*. Continuation of ART 6991. Self-motivated, individual studio practice. In the second year students begin research and practice leading to the MFA Thesis Project and Capstone. Total of 1 to 6 s.h. with a minimum of two different faculty second year fall semester. Prereq.: ART 6991. 1-6 s.h. (Change in course title, number and type.)

2019-20:60 COUN 6973L *Guided Group Counseling*. Supervised experience in the use of interventions appropriate to stages of group development. Emphasis will be placed on promoting self-awareness, interpersonal skills, and group skills and techniques. Course is taken concurrently with COUN 6973. 1 s.h. (Change in course title and course description).

2019-20:61 COUN 7005 *Student Affairs Internship Seminar.* This course will provide a weekly supervision and 600 hours of supervised ﬁeld experience for student affairs students. The internship supervision is designed to promote the integration of theory and practitioner experiences for students in a higher education setting and to help students prepare for the transition to a professional student affairs position following completion of the degree. Prereq.: COUN 7004. Corequ.: COUN 7020 3s.h. (Change in course title, description, hours, prerequisite and co-requisite).

2019-20:62 COUN 7009 *School Counseling Internship Seminar.* Supervised internship in approved school counseling programs. May be repeated. For counseling majors. Prerequ.: COUN 7007. Co-requ.: COUN 7020. 3s.h. (Change in course title, hours, co-requisite and prerequisite).

2019-20:63 COUN 7010 *Clinical Mental Health Counseling Internship Seminar.* Supervised internship in approved community agencies offering counseling and other mental health services. May be repeated. For counseling majors. Prereq.: COUN 7002 special approval required. Corequisite: COUN 7020. 3s.h. (Change in course title, hours and co-requisite).

2019-20:65 MATH 6905 *College Teaching of Mathematics*. Intensive preparation for teaching lower-level mathematics courses, featuring formal instruction and orientation on teaching issues, evaluated presentations, mentored classroom instruction, and weekly teaching seminars. Topics include course design, policies, syllabi, grading; classroom teaching problems; orientation in Mathematics Assistance Center, specific lower-level mathematics courses, online tutorial services. Required of graduate assistants in the Department of Mathematics and Statistics. To be taken each semester student is a graduate assistant. Grading is S/U. Does not count toward credit in the program. 1 s.h. (Change of title and course description)

2019-20:68 CJFS 5802 *Corrections Law and Liability*. Analysis and examination of legal mandates and restrictions affecting the field of corrections. History of the development of offender rights, current issues surrounding offender rights, and future concerns in this area. Jail and prison standards, accreditation standards, case law, and liability concerns. Prereq.: CJFS 3702 or 3719. 3 s.h. (Change to prerequisite.)

2019-20:70 PHYT 8800 *Clinical Pathology* 1. Study basic concepts of clinical pathology, imaging, histology, and pharmacology used in Physical Therapists clinical decision making. Study human disease processes and tissue injury and their effect on body structure and function. Learn relationships between pathology and clinical signs and symptoms, diagnostic imaging techniques, histological findings, etiology, differential diagnosis, prognosis, and treatment. 4 s.h. (Change to course title, description and hours.)

2019-20:72 PHYT 8933 *Clinical Foundation Skills*. Theories of professionalism in Physical Therapy practice including APTA/OPTA membership and benefits, fiscal responsibility, core values, professionalism, patient and professional advocacy, communication skills, safety, and healthcare compliance will be discussed. Basic patient assessment as it relates to anatomic principles will be taught and practiced and their clinical relevance will be reinforced.. 4 s.h. (Change to course title, description and hours.)

2019-20:79 MKTG 6975 *Applied Marketing Strategy.* Through applied learning experiences, students develop abilities to analyze markets, plan, design and implement effective marketing strategies in the areas of product, promotion, pricing, and distribution. Emphasis is on the integration of the marketing function with other business activities. Prereq.: Graduate standing 3 s.h. (Change of prerequisite and semester hours.)

2019-20:65 MATH 6905 *College Teaching of Mathematics*. Intensive preparation for teaching lower-level mathematics courses, featuring formal instruction and orientation on teaching issues, evaluated presentations, mentored classroom instruction, and weekly teaching seminars. Topics include course design, policies, syllabi, grading; classroom teaching problems; orientation in Mathematics Assistance Center, specific lower-level mathematics courses, online tutorial services. Required of graduate assistants in the Department of Mathematics and Statistics. To be taken each semester student is a graduate assistant. Grading is S/U. Does not count toward credit in the program. 1 s.h. (Change of title and course description)

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2019-20:80 MGT 6975 *Strategic Management*. With an emphasis on problems of executive management, decision making, and administrative action, participants will develop strategic thinking capabilities through an examination of the design, implementation, and evaluation of business strategy and policy. Must be taken concurrently with MGT 6976. Minimum 3.0 GPA. Prereq.: FIN 6923, MGT 6930, MGT 6944, MKGT 6975. 3 s.h. (Change of prerequisite and semester hours.)

2019-20:96 SPSY 6907 *Psycho-Educational Assessment Practices in the Schools*. This course is designed to provide an overview of the relevant concepts, principles and methods underlying the construction and interpretation of psychological and educational tests. Through lectures, discussion, and individual and group activities, students will learn about the basic concepts, competencies, issues, and tools used in psychological testing and measurement and their practical applications. In this course, candidates will gain knowledge of how psychological tests are built, what they can and cannot do, the conditions under which they should and should not be used, and how to evaluate their adequacy. This is important information for aspiring school psychologists, as the measurement of human behavior comprises an area of knowledge and skill that is fundamental to the field. At the conclusion of this course, students will be more knowledgeable about and an informed consumer of psychological tests. Prereq.: School Psychology Candidacy. 3 s.h. (Change to course title and prerequisite.)

2019-20:97 ECON 5824 *Applied Time Series Analysis of Economic and Business Data*. An in-depth analysis of time series models and their applications to problems in economics and business. Emphasis on forecasting. Extensive use of standard computer programs. Prereq.: ECON 2610 and STAT 4817 or ECON 3790 or (ECON 3788 and ECON 3789) or (ECON (ECON 3788 and BUS 3700). 3s.h. (Change of prerequisites of a swing course.)

2019-20:98 ECON 5861 *SAS Programming for Data Analysis*. An introduction to SAS programming for data analytics. Topics include using SAS for data processing, manipulation, visualization, reporting, and statistical analysis. The objective is for students to develop statistical computing skills for problem solving and decision making. Cross listed: STAT 5811. Prereq.: STAT 2601 or STAT 3717 or STAT 3743 or ECON 3790, or ECON 3788 and ECON 3789, or ECON 3788 and BUS 3700.). 3s.h. (Change of prerequisites of a swing course.)

2019-20:103 PHYT 8902 *Functional Anatomy. Study of kinetics*, kinematic variables, and mechanical properties of tissue; motion analysis: posture, gait and functional activities; environmental contexts and constraints; and life span applications. Prereq.: Admission to DPT Program. 4 s.h. (Change of course hours.)

2019-20:114 CSIS 5838 *Graphics and Animation for Gaming*. Design and implementation of 3D computer games. Development of 3D characters, including surface creation and effects, skeletal and facial rigging, and motion and animation. Programming those characters in a 3D game engine, including scripting, level and game design, and game physics. Prerequ.: CSIS 3737 3 s.h. (Change of course description and prerequ.)

2019-20:115 ENST 5830 *Toxicology and Risk Assessment*. A study of environmental toxicology of chemicals, primarily anthropogenic pollutants, and their effect on humans and ecosystems. Includes transportation of pollutants in the environment, biochemical reactions, toxicity testing methods, and dose-response assessment. Continues with an introduction in the process of estimating risk and the perception of those risks including how risk is used to set environmental standards. Prereq.: ENST 1516 junior, senior or graduate standing. 3 s.h.. (Change of course title and course description and prerequ.)

2019-20:116 ENST 5810 *Environmental Safety*. The proper use of environmental monitoring instruments and personal protective gear. Participation in a series of realistic, hands-on simulation exercises that address a variety of waste clean-up situations. Topics include chemical and physical hazards of chemical compounds and toxicology and adverse effects of chemical exposure. Class meets three hours per week. Successful completion of the course earns OSHA Hazwoper 40 hour training certificate. Prereq.: ENST 260, equivalent experience or permission of instructor. 3 s.h. (Change of course description, hours and prerequ.)

2019-20:119 HHS 6962 *Health Care Reform*. The purpose of the course is to give students the skills necessary to understand all aspects of health and health care especially those related to Health Care Reform and recent and previous legislation. It will examine the supply of and demand for health services, and the analysis of health care systems and current, previous and potential future legislation relevant to health care reforms. Cross listed with OMBA 6962. Prereq.: Enrollment in OBMA or MHHS programs. 3 s.h.. (Change of prerequ.)

**Undergraduate Courses Approved for Swing Credit 2019-2020**

2019-20:24 CJFS 5840 *Critical Incidents and Homeland Security*. This course provides an overview of emergency planning at all stages from the initial development of an emergency plan to the management of crisis situations to the evaluation of the response. The course culminates in the creation of an emergency preparedness plan for jurisdiction or agency of the student’s choosing, and the student is encouraged to select a situation consist with present work or long-term career plans. Prereq.: CJFS 1500, PHLT 1531, OR graduate student status. 3 s.h. (Add a new 5800 swing level course.)

2019-20:25 CJFS 5841 *Terrorism and Counter Surveillance*. The course provides an introduction to terrorism and counter-terrorism techniques. Generally, the course material is divided into two parts. First, the course offers a description of terrorist and anti-government groups. Topics covered include the background and history of terrorist and anti-government groups as well as the tactics of these groups. Second, the course takes the perspective of homeland security and law enforcement agencies proactively counteracting the threats to public safety that they groups may pose. Prereq.: CJFS 1500, PHLT 1531, OR graduate student status. 3 s.h. (Add a new 5800 swing level course.)

2019-20:39 ECON 5850 *Introduction to Game Theory.* This course is an introduction to game theory and it focuses on applications of strategic thinking drawn from economics, business, political science, and sociology. Topics include (not limited to) Nash equilibrium, pure/mixed strategy, static/dynamic games, repeated games and coordination, perfect/incomplete information, etc. Prereq.: ECON 2610 3 s.h. (Add a new 5800 swing level course.)

2019-20:86 CHEM 5831L *Inorganic Chemistry Laboratory*. Preparation of typical inorganic compounds and their characterization. Six hours lab-discussion. Prereq. or Corequ.: CHEM 3729 and CHEM 3739. 2 s.h. (Addition of a new swing course.)

2019-20:87 DATX 5801 *Data Management*. This course covers the basic concepts of database systems and emphasizes the real-world database applications relevant to the management of data in an organization environment. The topics include (not limited to) database environment, database development, relational database management systems, SQL/NoSQL data management language, data normalization, data warehousing, and internet database environment. Credit will not be given for both DATX 5801 and CSIS 3722. 3 s.h. (Addition of a new swing course.)

2019-20:88 DATX 5803 *Data Visualization*. Data visualization refers to the graphical representation of information revealed through data analysis. With the assistance of various visualization elements, we can present data in a clear and effective manner. More importantly, turning data into impactful images, we are able to gain valuable insights and intelligence that help improve our decision-making processes. This course introduces students to various types of visualization techniques like charts, tables, graphs, maps, infographics and dashboards. It emphasizes applying appropriate visualization techniques in uncovering information from data. Moreover, it will help students develop skills of data storytelling, i.e. effectively communicating actionable insights through the combination of data visualization and narratives. Prereq.: DATX 5801 or CSIS 3722. 3 s.h. (Addition of a new swing course.)

2019-20:89 DATX 5805 *Predictive Modeling Algorithms.* Predictive modeling (also referred to predictive analytics and machine learning) applies statistical techniques in analyzing data to predict outcomes. Through a hands-on approach, this course helps students develop basic skills in predictive analytics. Topics may include (not limited to) k-nearest neighbors, naïve-Bayes, linear and logistic regression models, time-series models, classification and regression trees, Principle Component/Factor Analysis, non-linear models, neural networks, random forests, and cluster analysis among others. Prereq.: DATX 5801 or CSIS 3722. 3 s.h. (Addition of a new swing course.)

**Graduate Credit Dropped from a Swing Course 2019-2020**

None

**New Graduate Programs/Certificates 2019-2020**

### 2019-20:67 Graduate Certificate in Homeland Security (Addition of a new graduate certificate.)

### 2019-20:84 Graduate Certificate in Data Analytics (Addition of a new graduate certificate.)

**Program Changes—Graduate Programs 2019-2020**

### 2019-20:41 Master of Business Administration. Change in degree requirements for on campus program.

### 2019-20:54 Master of Education in Teacher Education Curriculum and Instruction. Addition of Teacher Leader Specialization.

### 2019-20:55 Master of Science in Criminal Justice. Change in learning outcomes.

### 2019-20:59 Master of Professional Communication. Change in degree requirements to add marketing and a Professional and Technical Writing track.

### 2019-20:64 Master of Education in Teacher Education Curriculum and Instruction. Addition of STEM and Math Specialization.

### 2019-20: 99 Program Change. Master of Accountancy. Changes to admission requirements and degree requirements.

### 2019-20:102 Program Change. Master of Respiratory Care. Changes to degree requirements. CJFS 6942 is no longer offered as a web based course so it is being replaced with CJFS 6940 Statistical Techniques in Health and Human Services

2019-20:102 Program Change. Master of Respiratory Care. Changes to degree requirements. CJFS 6942 is no longer offered as a web based course so it is being replaced with CJFS 6940 Statistical Techniques in Health and Human Services.

2019-20:105 Program Change. Health Sciences. Changes to admission requirements and degree requirements.

2019-20:109 Program Change. Master of Music, Music Education. Changes to admission requirements and degree requirements.

2019-20:110 Program Change. Master of Music, Music Performance. Changes to admission requirements and degree requirements.

2019-20:111 Program Change. Master of Music, Jazz Studies. Changes to admission requirements and degree requirements.

2019-20:112 Program Change. Master of Music, Music History and Literature. Changes to admission requirements and degree requirements.

2019-20:113 Program Change. Master of Music, Music Theory and Composition. Changes to admission requirements and degree requirements.