**New Course Request:**

**ANSC 670.** Quality Assurance for the Food Industry. (3-0). Credit 3. Principles of food system process control including statistical process control (SPC) and the tools required to assure uniform communication and understanding of quality assurance systems. Prerequisite(s): Graduate classification.

**ANTH 672.** Ancient Genetics. (3-0). Credit 3. Ancient DNA and its role in answering anthropological and archaeological questions. Prerequisite(s): Graduate classification or approval of instructor.

**ATTR 673.** Manual Therapy in Athletic Training. (1-2). Credit 2. Manual therapy theory and techniques used as a therapeutic intervention for orthopedic injuries and conditions; indications and contradictions for the use of manual therapy; skill development in soft tissue assessment; application of manual and tool assisted techniques. Prerequisite(s): Enrollment in MS athletic training program.

**BIO 694.** Graduate Orientation. (1-1). Credit 1. Instruction on what constitutes fraud in science, how to recognize it, and how to avoid committing fraud; includes basis of ethics and plagiarism, negotiation techniques and conflict management, and the regulations and ethics covering animal and human experiments, record-keeping, data management, and peer review. Prerequisite(s): Graduate classification.

**BIOL 696.** Ethics and Responsible Conduct of Research (1-0). Credit 1. Instruction on what constitutes fraud in science, how to recognize it, and how to avoid committing fraud; includes basis of ethics and plagiarism, negotiation techniques and conflict management, and the regulations and ethics covering animal and human experiments, record-keeping, data management, and peer review. Prerequisite(s): Graduate classification or approval of instructor.

**EPSY 634.** Educational Neuroscience. (3-0). Credit 3. Human learning form a biological perspective; fundamentals of genetics and neuroscience and the principles used to better understand the conditions brains develop and function optimally; a look at the biological substrates of emotions and motivation as well as executive functions (e.g. working memory, attentional control), and skills related to language and mathematics; neuroscience and application to atypical learners; emotional, learning, and other disorders that make learning and succeeding in educational contexts more challenging. Prerequisite(s): Graduate classification; approval of department head.

**ESSM 604.** Changing Natural Resource Policy. (3-0). Credit 3. Study of the process through which environmental policies are changed; theories of social and political change; using these theories along with original research on environmental policy problems to create and implement plans for changing environmental policies in communities. Prerequisite(s): Graduate classification.

**FINC 678.** Real Estate Analytics. (1-0). Credit 1. Specialized training for the real estate finance industry including Excel, Argus, and GIS software. Classification 6 students may not enroll in this course. Prerequisite(s): Enrollment in Master of Real Estate.

**FSTC 670.** Quality Assurance for the Food Industry. (3-0). Credit 3. Principles of food system process control including statistical process control (SPC) and the tools required to assure uniform communication and understanding of quality assurance systems. Prerequisite(s): Graduate classification.

GENE 682. Seminar Presentation. (1-0). Credit 1. Presentation of research progress and results; perform peer assessment.

HIST 626. Reading Seminar in Gender and Sexuality in History. (3-0). Credit 3. Explanation of how gender and sexuality operate both as categories of identity and as analytical tools; how scholars have employed them to understand historical processes; how languages shape power relationships; how other vectors of identify (class, race, and nation) intertwine with gender and sexuality. Prerequisite(s): Graduate classification.

HIST 627. Research Seminar in Gender and Sexuality in History. (3-0). Credit 3. Research and writing seminar focused on topics relevant to gender and sexuality in history. Prerequisite(s): Graduate classification.

HIST 638. Research Seminar in Asian History. (3-0). Credit 3. Social and cultural transformation of modern Asian; politics and government; wars and military affairs; imperialism, and foreign relations; economic development, society, culture, religion. Prerequisite(s): Graduate classification.

HLKN 698. Systems Thinking and Complexity in Population Health. (3-0). Credit 3. This course examines population health as a complex adaptive system. It delves into the theoretical underpinnings of complexity science with an emphasis in modeling and simulation. Key topics include emergence, phase transitions, tipping points, resilience, early warning signals, and edge of chaos, cellular automata, fractals, system dynamics, and agent-based models. Prerequisite(s): HLTH 605: Research Methods or similar graduate research methods course.

HPCH 641. Coaching Health Behavior Change. (3-0). Credit 3. Training in coaching lifestyle behavior change to prevent or manage common chronic diseases, effectiveness of lifestyle coaching; theories and practices in coaching for disease prevention; motivational and other interviewing techniques; goal setting and legal concerns.

MARA 675. Leadership in the Maritime Industry. (3-0). Credit 3. Focus on theory and real world practice of leadership; recognize components of leadership, management or labor, the basis of leadership authority, values and styles as applied to organizational vision, mission and life cycle; assess own leadership traits in preparation of entering work force. Prerequisite(s): Graduate classification and/or approval of instructor.

MARS 603. Quantitative Methods for Resource Management. (3-0). Credit 3. Comprehensive introduction to descriptive and inferential statistical techniques, regression models, quantitative data analysis and research designs essential for understanding resource management and policy related issues. Prerequisite(s): STAT 303 or equivalent introductory undergraduate quantitative methods course.

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MEEN 605. Gas Dynamics. (3-0). Credit 3. Overview of gas flows at Mach numbers wherein the fluid can no longer be assumed incompressible; aerospace and mechanical engineering applications ranging from external aerodynamics to internal flows for applications such as propulsion and airframe designs for jets, rockers, missiles, and other devices; includes supersonic flows, shock waves, expansion waves, shock tubes, supersonic wind tunnels, gas flows with friction and gas flows with health transfer. Prerequisite(s): MEEN 344 or equivalent.

NUEN 674. Uncertainty Quantification in Nuclear Science and Engineering. (3-0). Credit 3. Predictions of computer codes where the inputs to those codes are uncertain. Demonstration on building confidence in computer models and making a qualified prediction. Prerequisite(s): Graduate classification or approval of instructor.

PERF 606. Performing Gender and Sexuality through Music. (3-0). Credit 3. Examination of how gendered and sexual identities are explored and contested through musical performance. Prerequisite(s): Graduate classification.

PERF 607. Performance and Technology. (3-0). Credit 3. Explanation of the intersection of performance and technology with special emphasis on the impact of technology on aesthetics, social and political formations, and the body. Prerequisite(s): Graduate classification.

PERF 608. Performance and the Art of Government. (3-0). Credit 3. Examination of performance in political processes and institutions, using the tools of performance studies to analyze and interpret the work of states and governments. Prerequisite(s): Graduate classification.

PHEO 639. Hazardous Materials Management and Compliance. (3-0). Credit 3. Types of hazardous materials; system of environmental laws governing management of hazardous materials as well as contaminants in air, water and solid waste; appropriate management and regulatory compliance; hazardous materials spills and response; hazard communication and right-to-know regulations, hazard communication benchmarking and performance criteria.

PSAA 624. Water Policy and Management. (3-0). Credit 3. Explanation of the role of governmental institutions, political parties, political processes and behavior, public policies and the political history in water governance, policy, policymaking, and management; focuses primarily on water policy in the U.S., and addresses serious water issues in other parts of the world. Prerequisite(s): Graduate classification.

PSAA 625. Urban Sustainability Policies and Management. (3-0). Credit 3. Studies the relationship between local political processes and the pursuit of sustainable development; focuses on theoretical underpinnings of sustainability and sustainable development as applied in the local city context of the United States and the way these concepts actually got defined through local political and policy making processes. Prerequisite(s): Graduate classification.

SPMT 630. Economic Issues in Sport. (3-0). Credit 3. Economics of North American professional sport. Includes supply and demand, the market for broadcast rights, league structure, market power, revenue distribution mechanisms and the market for playing talent. Prerequisite(s): Graduate classification.

URSC 601. Foundations of Research in Urban and Regional Science. (3-0). Credit 3. Introduction to the research process and its application to problems in urban, planning, and regional science; presentation of philosophy and logic underlying the scientific method; critical analysis of planning and design.
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literature according to each step of the research process; problem definition, hypothesis development, study design, analysis and interpretation of the findings.

**URSC 602.** Research Methods in Urban and Regional Science. (3-0). Credit 3. Basic empirical research methods used in urban, planning, and regional science research: experimental, survey, and case study designs; comparisons of various methods; application of techniques in sample selection, data collection, and analytical approaches. Prerequisite(s): URSC 641 or STAT 651 or approval of instructor.

**VPAT 610.** Cell Mechanisms of Disease. (3-0). Credit 3. Cellular mechanisms, morphologic manifestations and clinical presentations of illustrative disease processes. Prerequisite(s): Enrollment as a graduate student in BIMS, VTPB, or BMEN; approval of instructor

**VSCS 697.** Teaching Neuroanatomy Lab. (2-12). Credit 4. Theory and practical aspects of teaching neuroanatomy lab and clinical neurology; emphasis on content, instructional methods and practical aspects of neuroanatomy lab. Prerequisite(s): Graduation classification in VIBS/VSCS; appointment as TA for VIBS 913 anatomy lab.
Course Change Requests:

ARCH 619: Applied Solar Energy
PREREQUISITE(S)

From: Prerequisite(s): Graduate classification or approval of instructor; ARCH 335 or ARCH 615 or equivalents

To: Prerequisite(s): Graduate classification or approval of instructor

ARCH 621: Energy Optimization in Building Design
PREREQUISITE(S)

From: Prerequisite(s): Graduate classification or approval of instructor; ARCH 333 or ARCH 615 or equivalents

To: Prerequisite(s): Graduate classification or approval of instructor

ARCH 633: Applied Architectural Systems
PREREQUISITE(S)

From: Prerequisite(s): Graduate classification or approval of instructor; ARCH 335 or ARCH 615 or equivalents

To: Prerequisite(s): Graduate classification or approval of instructor

ARCH 634: Architectural Lighting
PREREQUISITE(S)

From: Prerequisite(s): Graduate classification or approval of instructor; ARCH 335 or equivalent

To: Prerequisite(s): Graduate classification or approval of instructor

ARCH 643: Software Analysis for HVAC Systems in Low Energy Buildings
PREREQUISITE(S)

From: Prerequisite(s): ARCH 633 or equivalent

To: Prerequisite(s): Graduate classification or approval of instructor

CHEM 636: Mechanistic Inorganic Chemistry
COURSE CREDIT

From: (3-0). Credit 3.

To: (2-0). Credit 2.
EDTC 602: Educational Technology: Field, Theory, Profession
PREREQUISITE(S), COURSE TITLE, AND COURSE DESCRIPTION

From:
Prerequisite(s): Approval of Department Head
Course Title: Educational Technology: Field, Theory, Profession
Course Description: Introduces the student to the educational technology profession and provides a conceptual map of the theory, research and practice of the field; a historical overview of the field aids in bringing current educational technology practices into perspective.

To:
Prerequisite(s): EDTC Major; Approval of Instructor
Course Title: Educational Technology: Field, Theory and Profession
Course Description: Introduction to the field of educational technology, including media, instructional design, theory, and research; exploration of the history and future direction of the field, as well as careers in educational technology through interaction with professionals currently working in the field.

EDTC 621: Graphic Communication and Interface Design
PREREQUISITE(S) AND COURSE DESCRIPTION

From:
Prerequisite(s): Approval of Department Head
Course Description: Application of research findings and design principles to the critical analysis of the interfaces of everyday objects, print materials, and Web sites; effective design of graphical displays to communicate functionality and structure; issues related to flawed interfaces, elegant design solutions, user-centered design, usability testing, and Web site accessibility.

To:
Prerequisite(s): Graduate classification; Approval of Department Head
Course Description: Effective communication using visual channel humans use to process information; application of research findings and design principles to the effective design of graphical displays to communicate functionality and structure and the critical analysis of the interfaces of everyday objects and e-learning resources; includes flawed interfaces, elegant design solutions, user-centered design, and usability.

EDTC 631: Educational Video
PREREQUISITE(S) AND COURSE DESCRIPTION

From:
Prerequisite(s): Approval of Instructor
Course Description: Design and development of educational video programs using an effect-to-cause model: message definition, scriptwriting, storyboarding, production, post-production editing and evaluation; topics include lighting, sound, the operation of digital video cameras, the use of digital editing software, visual effects, compression, video sharing websites, copyright law, productive personnel, medium requirements

To:
Prerequisite(s): Graduate classification; Approval of instructor
Course Description: Design and development of educational videos using choice of video edition program; experience the entire process of developing educational videos, from concept to finished project; emphasis on instructional message design, treatment, and storyboarding

EDTC 645: Instructional Applications of Computer Technologies I
PREREQUISITE(S), COURSE TITLE, AND COURSE DESCRIPTION

From:
Prerequisite(s): Approval of department head
Course Title: Instructional Applications of Computer Technologies I
Course Description: Introduction to the integration of computers, telecommunications, and related technologies into education practice; resources for personal productivity and development/delivery of instructional materials; applications for both educators and students (word processing, databases, etc.); projects include hands-on development of Hypertext, Multimedia, and Internet (web-based) resources in participant’s own area of study

To:
Prerequisite(s): Graduate classification; Approval of department head
Course Title: Emerging Technologies for Learning I
Course Description: Evaluation of emerging trends and technologies and their impact on learning and performance; emphasis on technologies currently being adopted in organizations and driving changes in education; hands-on activities examining multiple technologies and identifying best practices.

EDTC 646: Instructional Applications of Computer Technologies II
COURSE TITLE AND COURSE DESCRIPTION

From:
Course Title: Instructional Applications of Computer Technologies II
Course Description: Issues (social, educational, etc.) and techniques associated with educational applications of computers and related resources and techniques (graphics, multimedia, etc.); relationship of course activities and products to individual educational/instructional philosophies; web-supported

To:
Course Title: Emerging Technologies for Learning II
Course Description: Critical examinations of trends and technologies expected to have an impact on learning and performance over the next five years; educational futurist predictions, key factors to consider in adoption/integration decisions, and theoretical as well as technological underpinnings; hands-on activities field of interest
EDTC 651: Tutorials and Simulations
PREREQUISITE(S), COURSE TITLE, AND COURSE DESCRIPTION

From:
Prerequisite(s): Approval of department head
Course Title: Tutorial and Simulations
Course Description: Application of theory to the design and development of two types of computer-based instructional programs; tutorials and simulations; critique of existing instructional software for K-12 students and adult training programs; guidelines for design decisions related to rich media, navigation, learner/program control, practice, interactivity, and feedback

To:
Prerequisite(s): Graduate classification; Approval of Instructor
Course Title: E-Learning Design and Development
Course Description: Design and development of stand-alone instructional programs for independent learning; consideration of research-based principles for the design of these programs, including guidelines for design decisions related to rich media, navigation, learner/program control, practice, interactivity, and feedback; application of these principles to design and develop a program on a topic of choice; use of Adobe Captivate and image editing software

FINC 635: Financial Management for Non-Business
PREREQUISITE(S), COURSE TITLE, AND COURSE DESCRIPTION

From:
Prerequisite(s): ACCT 640 or equivalent or approval of instructor
Course Title: Financial Management for Non-Business
Course Description: External and internal factors affecting financial decision-making in the firm; fundamental concepts of accounting and managerial economics.

To:
Prerequisite(s): Graduate classification
Course Title: Survey of Finance
Course Description: Financial markets, the investment banking process, interest rates, financial intermediaries and the banking system, financial instruments, time value of money concepts, security valuation and selection, and international finance. May not be used for elective credit by a master’s candidate in business administration.

FINC 685: Directed Studies
CREDIT HOURS

From: Credit (4-0). Credit 4.

To: Credit (6-0). Credit 6.

MARS 675: Environmental Management Strategies for Scientists
CREDIT HOURS AND COURSE DESCRIPTION

From:
Course Description: The course is designed to provide and EMS strategist’s skills with focus on international standards, including structure and elements of an EMS, determining how an effective EMS can reduce costs and increase profits, case studies.
Credit Hours: (2-0). Credit 2

To:
Course Description: The elements of EMS strategist’s skills, including what environmental laws may be triggered by scientific activities; the fundamental structure of an EMS; EMS alternatives; concepts in an audit; uses of an effective EMS to reduce costs and increase profits.
Credit Hours: (3-0). Credit 3

**PERF 605: Topics in Globalization and Performance**

**PREREQUISITE(S), COURSE NAME, COURSE DESCRIPTION**

From:
Prerequisite(s): PERF 600 or approval of instructor
Course Title: Topics in Globalization and Performance
Course Description: Examines expressive cultures in global contexts; theoretical and methodological approaches to globalization and/in performance and/as practices of everyday life. May be taken two times for credit.

To:
Prerequisite(s): Graduate classification
Course Title: Globalization and Performance
Course Description: Examines global performances; theoretical and methodological approaches to globalization and/in performance and/as practices of everyday life.

**PERF 612: Music Capitalism**

**COURSE NAME, COURSE DESCRIPTION**

From:
Course Title: Spectacle, Performance, and Politics
Course Description: Interdisciplinary and international exploration of a spectacle as political performance.

To:
Course Title: Spectacle and Performance
Course Description: Examines various popular performances as spectacle.

**PERF 615: Spectacle, Performance and Politics**

**COURSE NAME, COURSE DESCRIPTION**

From:
Course Title: Spectacle, Performance, and Politics
Course Description: Interdisciplinary and international exploration of a spectacle as political performance.
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Course Title: Spectacle and Performance  
Course Description: Examines various popular performances as spectacle.

**PERF 621: Topics in Popular Music Studies**  
**PREREQUISITE(S), COURSE NAME, COURSE DESCRIPTION**

**From:**  
Prerequisite(s): PERF 600, PERF 601, PERF 602 or approval of instructor  
Course Title: Topics in Popular Music Studies  
Course Description: Examination of context, politics, and political economy of specific popular music forms. May be repeated for a total of 9 credits.

**To:**  
Prerequisite(s): Graduate classification  
Course Title: Graduate Studies in Popular Music Research  
Course Description: Examination of context, politics, and political economy of specific popular music forms.

**SCMT 610: Quantitative Analysis for Business Decisions**  
**COURSE TITLE**

**From:**  
Course Title: Quantitative Analysis for Business Decisions

**To:**  
Course Title: Business Analytics

**VIZA 617: Advanced Animation**  
**PREREQUISITE(S)**

**From:**  
Prerequisite(s): VIZA 615 or approval of instructor

**To:**  
Prerequisite(s): VIZA 613 or approval of instructor

**VIZA 622: Design Communication I**  
**PREREQUISITE(S)**

**From:**  
Prerequisite(s): VIZA 612, graduate classification, or approval of instructor

**To:**  
Prerequisite(s): VIZA 465 or equivalent, graduate classification or approval of instructor

**VIZA 627: Design Communication II**  
**PREREQUISITE(S)**

**From:**  
Prerequisite(s): VIZA 612, VIZA 643, or approval of instructor

**To:**  
Prerequisite(s): VIZA 613 or VIZA 622 or VIZA 643 or approval of instructor
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VIZA 629: Digital Media: Inspiration and Process
PREREQUISITE(S)

From: Prerequisite(s): Graduate classification in visualization or approval of instructor
To: Prerequisite(s): Graduate classification or approval of instructor

VIZA 630: Contemporary Art Studio/Seminar I
PREREQUISITE(S)

From: Prerequisite(s): MFA or MS in Visualization or approval of instructor; graduate classification
To: Prerequisite(s): Graduate classification in visualization or approval of instructor

VIZA 631: Contemporary Art Studio/Seminar II
PREREQUISITE(S)

From: Prerequisite(s): MFA or MS in Visualization and VIZA 630 or approval of instructor; graduate classification
To: Prerequisite(s): VIZA 630 or approval of instructor

VIZA 643: Time Based Media I
PREREQUISITE(S)

From: Prerequisite(s): VIZA 612 or approval of instructor
To: Prerequisite(s): VIZA 465 or equivalent, graduate classification in visualization or approval of instructor

VIZA 658: Experimental Visual Techniques
PREREQUISITE(S)

From: Prerequisite(s): VIZA 654 or VIZA 656 or approval of instructor
To: Prerequisite(s): Graduate classification or approval of instructor

VIZA 680: Professional Practice in Visualization
PREREQUISITE(S)

From: Prerequisite(s): Graduate classification
To: Prerequisite(s): Graduate classification in visualization and approval of instructor

VIZA 691: Research
PREREQUISITE(S) and COURSE DESCRIPTION

From:
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Prerequisite(s): Approval of instructor
Course Description: Research for preparation of thesis.

To:
Prerequisite(s): Graduate classification in visualization and approval of instructor
Course Description: Research for preparation of MS thesis.

VIZA 693: Professional Study
PREREQUISITE(S) and COURSE DESCRIPTION

From:
Prerequisite(s): MFA in Visualization; graduate classification
Course Description: Research and writing combined with studio projects; prepare and present a public exhibition of final body of work; related paper submitted to a scholarly journal as approved by the committee chair. May be repeated for credit

To:
Prerequisite(s): Graduate classification in visualization and approval of instructor
Course Description: Research and writing combined with MFA studio projects; prepare and present a public exhibition of a final body of work; submit a related scholarly journal paper as approval by the committee chair. May be repeated for credit.
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Course Withdrawal Requests

PERF 612: Music Capitalism
Reason: The instructor who developed the course is no longer at TAMU.
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Curriculum Change Request:

Bush School
Department of Public Service and Administration

Changes: Executive Master of Public Service and Administration (EMPSA)
  i. Core course: Add of PSAA 630- Program Evaluation in Public and Nonprofit Organization
  ii. Nonprofit Management Track: Add PSAA 632- Fiscal Management for Nonprofits
  iv. Addition of Public Management Track

College of Education and Human Development
Education and Social Sciences Advanced Research Methods Certificate

Change: Remove 3 EDCI 689. Add EPSY 637, EPSY 650, EPSY 652, EPSY 653, EPSY 654, EPSY 655, EPSY 656, EPSY 628, EHRD 690, and HLTH 689

College of Education and Human Development
Master of Science in Athletic Training

Change: ATTR 654 Clinical Education IV replaced with ATTR 673 Manual Therapy in Athletic Training

College of Geosciences
Oceanography/Atmospheric Sciences Meteorology- 5-Year Joint Program

Change: Change existing Master of Science in Oceanography to the new non-thesis Master of Ocean Science and Technology

College of Geosciences
Oceanography/Environmental Geosciences Meteorology- 5-Year Joint Program

Change: Change existing Master of Science in Oceanography to the new non-thesis Master of Ocean Science and Technology

College of Liberal Arts
Masters of Arts in Performance Studies

Change: Updates/changes to the courses in the curriculum

Genetics
Master of Science in Genetics

Change: Modified requirements in core curriculum classes and competency areas. Added requirements for oral presentations, ethics, and grant writing.

Genetics
Doctor of Philosophy in Genetics
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**Change:** Modified requirements in core curriculum classes and competency areas. Added requirements for oral presentations, ethics, and grant writing.

Institute for Scientific Computation
Computational Sciences Certificate Program
**Change:** Change in course description and curriculum. Addition of elective course options.

Texas A&M University – Galveston
Masters in Maritime Administration and Logistics (3+2 Thesis Option)
**Change:** Add MGMT 211 as a required course. Add MARA 475 and MARA 675 as MARA directed electives.

Texas A&M University - Galveston
Master of Marine Resources Management
**Change:** New required courses: MARS 603 and MARS 681 seminar. Technical paper and final examination required.

Texas A&M University – Galveston
Ocean and Coastal Resources and Marine Resources Management
**Change:** Replace ENGL 2010 and 2 free elective credits with BIOL 111, introductory seminar with first year experience, and MARS 101
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Special Consideration Items:

Bush School of Government and Public Service
   International Affairs
      China Certificate
         Teach Out Plan

College of Veterinary Medicine and Biomedical Sciences
   Master of Science in Laboratory Animal Medicine
      Low-Producing Program Closure and Teach Out Plan

School of Public Health – Health Science Center
   Master of Public Health – Austin site
      Environmental Health
         Teach Out Plan

School of Public Health – Health Science Center
   Master of Public Health – Austin site
      Health Policy and Management
         Teach Out Plan