

## New Course Requests

**BIOL 683.** Experimental Design in Biology. (3-0). Credit 3. Design of scientific research projects in the field of biology; a wide range of biological experiments designed with the appropriate statistical technique for analysis; design biological studies that are statistically tractable and perform basic statistical analyses using the statistical programming language R. Prerequisite(s): Graduate classification and STAT651 or approval of instructor.

**BMEN 658.** Motion Biomechanics. (3-0). Credit 3. Skeletal anatomy and mechanics; muscle anatomy and mechanics; theory and application of electromyography; motion and force measuring equipment and techniques; inverse dynamics modeling of the human body; current topics in musculoskeletal biomechanics research. Prerequisite(s): Graduate classification or approval of instructor.

**ECEN 766.** Algorithms in Structural Bioinformatics. (3-0). Credit 3. Fundamental concepts, modeling techniques, and computational algorithms in structural bioinformatics for algorithm development and application; focus on algorithm perspective involving optimization and machine learning; essential for those without prior domain knowledge. Prerequisite(s): Approval of instructor.

**EDCI 715.** Academic Writing for International Graduate Students. (3-0). Credit 3. Introduction to concepts central to graduate-level writing; designed specifically to benefit those whose native language is not English; exploration of writing productivity strategies and library-based research skills; development of clarity for written expression; improvement in command over textual, rhetorical and discursive conventions common in academic writing genres. Prerequisite(s): Graduate classification.

**EDCI 752.** 21<sup>st</sup> Century Integration of Theory in Educational Settings. (3-0). Credit 3. Examination of various curricular issues and pedagogical implications encountered by schools and educators in the 21<sup>st</sup> century classroom; examination of various theoretical frameworks needed to address those issues and implications and advance student understanding. Prerequisite(s): Graduate classification; admission to Online EdD in EDCI.

**FINC 606.** Optics, Futures, and Other Derivatives. (3-0). Credit 3. Understanding the four basic derivative contracts (forwards, futures, swaps, and options) and how they function; pricing contracts via arbitrage; examination of derivatives using risk management; examination of material from the point of view of the arbitrageur and hedger, as opposed to the speculator; examination of speculative trading strategies in the options market. Prerequisite(s): FINC 603

**FINC 651.** Financial Valuation. (3-0). Credit 3. Theory and application of various approaches to valuation; measuring and managing the value of corporations; principles of value creation; fundamental valuation methodology; application of value creation principles to managerial problems; special cases and complex valuation issues. Prerequisite(s): Enrollment is limited to Classification 7 MBA students.

**FSTC 623.** Nanotechnology in Food Processing. (3-0). Credit 3. Fundamental and applied knowledge related to nanoscale systems and technologies utilized in processing of foods; topics includes nanoscale physico-chemical properties of foods, applications, manufacture, and analysis of nanotechnologies for food processing and preservation, and relevant industrial and regulatory food nanotechnology

associated aspects. Prerequisite(s): FSTC 312, FSTC 313, or FSTC 315 or AGSM 315 (or equivalent coursework); or approval of instructor. Cross-listed with: BAEN 623.

**INTA 642.** Institutions and Development. (3-0). Credit 3. Course takes an institutional perspective to examine how politics structures development possibilities from the policymaker and citizen perspectives. Prerequisite(s): None.

**PETE 651.** Probabilistic Reserves Evaluation. (3-0). Credit 3. Oil and gas reserves definitions and reporting regulations; probabilistic reserves estimation methods; unconventional resources characterization; reserves valuation techniques. Prerequisite(s): Graduate classification or approval of instructor. Stacked with: PETE 408-Probabilistic Reserves.

**PETE 652.** Deterministic Reserves Evaluation. (3-0). Credit 3. Oil and gas reserves definitions and reporting regulations; deterministic estimation methods; unconventional resources characterization; reserves valuation techniques. Prerequisite(s): Graduate classification or approval of instructor. Stacked with: PETE 418-Deterministic Reserves.

**WFSC 614.** Down River: Biology of Gulf Coastal Fishes. (3-0). Credit 3. Understanding the biological complexity of Gulf coast river systems while gaining hands-on experience in field and museum ichthyological techniques; sampling of the Guadalupe and San Antonio rivers; participation in lectures, museum preparation and archiving specimens at the Biodiversity Research and Teaching Collections (BRTC). Prerequisite(s): Graduate classification. Stacked with: WFSC 314.

## **Course Change Requests**

### **CVEN 684: Professional Internship**

#### **Credit Hours**

**From:** (2-0). Credit 2.

**To:** (3-0). Credit 3.

### **EHRD 625: Organizational Development & Performance in HRD**

#### **Prerequisite(s)**

**From:**

EHRD 601 or EHRD 603

**To:**

Graduate Classification

### **EPSY 630: Single Case Research**

#### **Course Description**

**From:**

Single Case Research: Provides skills to conduct research with N=1 designs in the area of special education, school counseling and school psychology; provides the procedures and applications to scenarios in classroom and clinic settings; collect and analyze data in three mini studies.

**To:**

Single-Case Experimental Design: Teaches measurement, design, implementation, and analysis skills to conduct research with single-subject design; review and summarize the quality of single-case literature, plan and implement AB designs.

### **SOCI 681: Professional Seminar in Sociology**

#### **Credit Hours**

**From:** (1-0). Credit 1.

**To:** (0-1). Credit 1.

### **SPED 620: Bilingual Special Education**

#### **Course Description**

**From:**

Bilingual Special Education: Topics concerning bilingual special education will be covered including history of the field; language acquisition and assessment; general assessment, individual education plans (IEPs); curriculum development; mainstreaming; consultation services; and parental environment.

**To:**

Bilingual Special Education: Topics concerning bilingual special education will be covered including the history of the field, language acquisition, learning disabilities and language differences, assessment, policy development, individualized education plans, instructional strategies, and parental involvement.

**SPED 632: Transition from School to Work**

**Course Description**

**From:**

Transition from School to Work: Current issues and practices related to the transition of students from school to work; partnerships with business and industry; secondary and postsecondary education linkages; work-based training.

**To:**

Transition Education and Services for Individuals with Disabilities: Current issues and practices related to the transition of students from school to adulthood; foundations of life-long transitions; assessment of post-school goals and identification of effective transition services to promote employment, postsecondary education, and community living; partnerships with parents and service providers.

**SPED 642: Program Development for Students with Behavior Problems**

**Course Description**

**From:**

Program Development for Students with Behavior Problems: Field-based course relating to effective management of challenging and severe behavior problems in the classroom using proactive strategies; effective instruction and planned behavioral interventions; methods for observing, assessing and analyzing challenging and severe behaviors; includes a 20-hour field based component.

**To:**

Prevention, Support, and Intervention for Students with Emotional and Behavior Problems: Effective management of challenging and severe behavior problems in education, clinic, and community settings using prevention, targeted programming, and individual interventions; includes methods for observing, assessing and analyzing challenging and severe behaviors.

**WFSC 607: Environmental Conflict Managements**

**Withdrawal**

Withdrawal: No longer offered.

**WFSC 608: Public Participation in Conservation Policy**

**Withdrawal**

Withdrawal: No longer offered.

**WFSC 617: Biology of Fishes**

**Withdrawal**

Withdrawal: No longer offered.

**Special Consideration**

College of Medicine

Physician Assistant Studies

Master Degree Proposal Program