

# Experimental and Selected Topics

## Catalog Supplement

The Catalog Supplement contains new and modified courses and programs that do not yet appear in the current university catalog. Some new or modified courses may satisfy General Education (GE) requirements.

To view the Catalog Supplement, which is updated each semester, go to [www.csun.edu/catalog](http://www.csun.edu/catalog) and select the Catalog Supplement link.

## Experimental and Selected Topics

Each academic year, the University may offer a series of Experimental and Selected Topics courses designed to meet certain immediate needs or advancements in the standard academic curriculum. Additional faculty review is required before Experimental Topics courses are incorporated into the university catalog. Selected Topics offer intensive study in areas that change each semester, so the courses do not appear in the printed university catalog. These courses are displayed on SOLAR during the terms in which they are scheduled.

Experimental and Selected Topics courses may carry full academic credit toward fulfillment of degree requirements. However, the courses do not fulfill requirements in General Education unless previously approved by the University.

To register in Experimental and Selected Topics courses, first look up the five-digit class number on SOLAR. Go to [www.csun.edu/portal](http://www.csun.edu/portal) and select **Search the Schedule of Classes** for the Spring 2007 semester. For additional course information, consult the appropriate department.

### UNDERGRADUATE EXPERIMENTAL TOPICS

Course numbering: 196A-Z; 296A-Z; 396A-Z; 496A-Z

### GRADUATE EXPERIMENTAL TOPICS

Course numbering: 595A-Z; 695A-Z

### SELECTED TOPICS

Course numbering system varies from department to department (e.g., 495A-Z or 596A-Z)



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## Arts, Media, and Communication

### ART 396EA. ENTERTAINMENT ADVERTISING DESIGN (3)

This course concentrates on the theory and practice of print advertising design for the entertainment industry. Students will be expected to develop a combination of graphic design, illustration, and branding skills. Assignments will include the creation of posters, print ads and billboards for the purposes of promoting motion pictures and television. Utilizing industry-standard software, the course also includes historical and contemporary references, as well as theoretical and conceptual approaches.

### ART 396MG. MOTION GRAPHICS (3)

This course is an introduction to Motion Graphics, which includes the categories of commercial, broadcast, main title and music video. The course will include lectures, showcases and demonstrations of the history, techniques and applications of motion graphics in broadcast media. Projects will cover basic motion graphics principles, design and composition, timing and drama, storyboarding and planning, sound and music development and synchronization. Appropriate and current industry standard computer applications will be introduced and applied.

### COMS 496T. COMMUNICATION TRAINING AND DEVELOPMENT (3)

Prerequisites: COMS 356 or COMS 656 or COMS 580. Available to graduate and upper-division undergraduate students. Examination and analysis of the processes, challenges, and promises of communication training and development. Through discussions and fieldwork, students explore applications of communication theory to practical situations, and learn how to conduct communication competency assessments/organizational culture audits, write assessment/audit reports, design, deliver, and evaluate customized communication training packages/programs for a variety of organizational settings.

### CTVA 496PPS. POST PRODUCTION SOUND (3)

Prerequisite: CTVA 355 or 340. Advanced course with a specialized foundation in post production sound recording and mixing. The course will explore the theory and professional practice of sound design for film and television. Topics include history, theory, dialogue editing, sound effects, Foley, ADR, and surround sound. Dual emphasis on individual creativity and production group dynamics. 3 hours lecture 3 hours lab.

## Business and Economics

### IS 497C. INFORMATION ASSURANCE NETWORKING FUNDAMENTALS (3)

This course aims at providing our students basic knowledge and skills to understand threats to computer network security, and to apply network security solutions to meet the increasing needs of businesses and organizations in information assurance/security. Upon completion of this course, the students will be aware of security issues related to computer networks, have an in-depth understanding of protocols that are critical in attack-defense mechanisms, understand attack mechanisms and defense mechanisms, and have basic skills in implementing security measures, through hands-on experience with technology solutions.

# Experimental and Selected Topics

## Michael D. Eisner College of Education

### **EED 595CA. BILINGUAL AND BICULTURAL TEACHING IN THE ELEMENTARY SCHOOL (3)**

This course will examine and compare/contrast the foundations of literacy development in the primary languages (Spanish, Korean, Armenian, Cambodian, Cantonese, Mandarin, Vietnamese) and English. Relationships among emergent literacy, primary language development, literature-based programs, and other paradigms of L1 and L2 literacy will be explored. Moreover, effective bilingual and bicultural teaching methodology will also be addressed, along with effective bilingual teaching strategies for reading and writing across the curriculum and SDAIE strategies for core content area (e.g., mathematics, science, history-social science, music, art, and p.e.) language development. Bilingual instructional planning (short and long range planning) and teaching will also be explored.

Prerequisite: Admission to Multiple Subject Credential program; Passage of BCLAD Examination #6; completion of EED 500 or EPC 500; EED 520; EED 577; SPED 401C; AAS/ARMN/CHS/ELPS/PAS 417; EED 560.

Pre- and co-requisites: Completion of or concurrent enrollment in EED 575, EED 565M, EED 565S, KIN 595PE, HSCI 496TH, EED 515, EED 561FB and multicultural course in the target language (e.g., AAS 496 for Korean; ARMN 440 for Armenian; CHS 430, CHS 431, or CHS 432 for Spanish).

### **EED 595J. LESSON DESIGN STUDY: DEVELOPING BEST PRACTICES (3)**

Preparatory: Completion of the California Preliminary Credential, or equivalent initial teaching credential. Employed as a K-12 classroom teacher. The curriculum addresses the candidates' goals as beginning teachers, builds upon the foundation established in the Preliminary Credential program, meets the California Standards for the Teaching Profession, and applies conceptual knowledge to practice in ways that engage candidates in important issues of theory and practice. Seminar emphases include lesson design study, assessment, differentiated instruction, and pedagogical content knowledge. Beginning teachers are visited in their classroom by the university instructor and/or required to submit a videotape of their classroom practice.

### **ELPS 695AC. ORGANIZATION AND ADMINISTRATION OF ELEMENTARY, SECONDARY AND SPECIAL EDUCATION (3)**

The organizational structure of elementary and secondary education in the schools with a focus on site leadership. Particular emphasis given to the organization, administration and supervision of various types of special education programs as well as the internal organization, structure, cultural context and the administration of the school and the role of the school principal. Emphasizing and encouraging personal responsibility for developing, articulating and refining the values, beliefs and assumptions that guide professional practice to maximize student learning.

### **ELPS 695BC. SUPERVISION OF CURRICULUM AND INSTRUCTION (3)**

Foundations and philosophies of curriculum and instructional supervision. Curriculum formation, organization, and assessment. Principles of professional development for staff members. The role of various school personnel in improving teaching and learning. Elementary and secondary school levels included.

### **ELPS 695CE. FIELD BASED LEADERSHIP (5)**

Prerequisite: Preliminary Administrative Services Credential. This course is designed to support and coach students who have initiated their careers in school leadership positions. Units of study include the knowledge and skills necessary to be an effective leader in strategic, instructional, organizational, political, and community domains. Students receive instruction and coaching in the awareness and development of skills and knowledge needed for planning a collaborative vision and culture for learning; for organizational management; for work with families and community agencies; to model a code of ethics; for professional development; and to work within the larger political, social, economic, legal and cultural context. An induction plan is developed in conjunction with an on-site mentor and university advisor.

### **SED 595JA-JK. LESSON DESIGN STUDY: DEVELOPING BEST PRACTICES (3)**

Preparatory: Completion of the California Preliminary Credential, or equivalent initial teaching credential. Employed as a K-12 classroom teacher. The curriculum addresses the candidates' goals as beginning teachers, builds upon the foundation established in the Preliminary Credential program, meets the California Standards for the Teaching Profession, and applies conceptual knowledge to practice in ways that engage candidates in important issues of theory and practice. Seminar emphases include lesson design study, assessment, differentiated instruction, and pedagogical content knowledge. Beginning teachers are visited in their classroom by the university instructor and/or required to submit a videotape of their classroom practice.

## Engineering and Computer Science

### **AE 595AFD. ATMOSPHERIC FLIGHT DYNAMICS (3)**

Flight vehicle equations of motion, static and dynamic stability, longitudinal and lateral-directional motion, aerodynamic influence coefficients. Control surface sizing and control. Flight envelope, maneuvering diagrams, influence of atmospheric disturbances. Flight simulator demonstrations of aircraft maneuverability. Introduction to flight test engineering.

### **COMP 196ACL. ADVANCED COMPUTER LITERACY (3)**

Prerequisite: Permission of Instructor. Prior basic experience is required in word processing, spreadsheets, presentation software, and the Internet. Study of advanced computing concepts related to uses, techniques, and terminology of computing. Emphasizes problem-solving, critical thinking, and analysis by challenging students to find practical solutions to office-based situations involving the use of computers. Covers advanced features of typical office applications, Web authoring, Web research, societal, ethical, privacy, and computer security issues. Not open to Computer Science majors.

### **COMP 598ADB. ADVANCED DATABASE SYSTEMS (3)**

Prerequisite: COMP 440 or demonstrate required level of proficiency in database systems. Topics include: on-going trends in database systems, emphasizing database fundamentals and new research directions; study a collection of papers that have influenced the field and represented the state of the art in database systems such as Bench-marking, Query Optimization, Data Warehousing, Data Mining, Transaction Processing, Concurrency Control and Recovery, Object-Oriented (OO) and Object-Relational DB, Distributed and Client-Server, and Parallel DB.

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## **COMP 598EA. EMBEDDED APPLICATIONS (3)**

Prerequisites: COMP 322/L and experience with assembly languages. Embedded systems present cost effective, challenging and flexible computational platforms. Instruction in the unique aspects of embedded systems including architectures, instruction sets, development environments, concurrent programming, networking, applications of embedded platforms, data acquisition from sensors and interaction with surrounding environment.

## **ME 496ALT. ALTERNATIVE ENERGY (3)**

Engineering principles for design and problem solving of alternative energy production sources including wind, solar, geothermal, biofuels, hydrogen and nuclear fusion. Background information on current resources and reserves of conventional energy sources. Potential for energy conservation to extend energy resources. Environmental impacts of conventional and alternative energy sources, including global warming. Economic analysis of energy production processes.

## **ME 595AIV. AUTONOMOUS INTELLIGENT VEHICLE (3)**

Prerequisite: Senior standing or graduate student. Overview of the state of the art on autonomous ground vehicles. Locomotion, mobile kinematics, perception, localization, planning and navigation of autonomous vehicles. Emphasis will be placed on chassis design, various sensor performance and navigation algorithm development. Knowledge of motion control, vision perception, and GPS navigation will be gained through course projects.

## **Health and Human Development**

### **CD 595L. OVERVIEW OF SPEECH & LANGUAGE PATHOLOGY (3)**

To establish a foundation of essential basic knowledge, concepts, and competencies in seven critical areas of speech, language pathology prior to masters level coursework

### **KIN 496AQE; 496AQL. ADAPTED AND THERAPEUTIC AQUATIC EXERCISE: ASSESSMENT, EVALUATION AND PROGRAM DESIGN (2/1)**

This course is designed to introduce intermediate/advanced knowledge in adapted aquatic therapeutic exercise. Assessment and evaluation processes to be learned include observations, screenings and various measurement instruments for the purpose of designing exercise protocols for individuals and groups with special needs.

### **KIN 496BAL. BALLET TECHNIQUE (3)**

A course for undergraduate/graduate dance specialists in the intermediate/advanced skill in ballet technique. May be repeated to a maximum of 12 units in different semesters (6 studio hours).

### **KIN 695AP. SEMINAR IN ADAPTED PHYSICAL ACTIVITY (3)**

An advanced study of theory and literature in adapted physical activity for individuals with disabilities. This course is designed to develop in-depth knowledge by integrating the subdisciplines of Kinesiology as they relate to adapted physical activity. Specific topics include pedagogical, psycho-social, physiological, and biomechanical aspects of adapted physical activity.

## **KIN 695QRE. QUALITATIVE RESEARCH AND EVALUATION (3)**

This course provides a foundation for qualitative inquiry with a focus on ethnographic description, interpretation, critique, and social action in Kinesiology.

## **RTM 595AT. TRENDS AND ISSUES IN HOSPITALITY AND TOURISM (3)**

This course addresses current trends and future projections in the hospitality and tourism industry from multiple perspectives: economic, psychological, cultural and social.

## **RTM 595BT. CULTURAL ASPECTS AND GLOBAL PERSPECTIVES IN TOURISM (3)**

Addresses cultural issues that are affected by tourism. Students will examine issues of authenticity, commodification of culture and the interaction of hosts and guests in different contexts, ranging from the industrialized world to developing countries.

## **RTM 595AS. TRENDS AND ISSUES IN RECREATIONAL SPORT MANAGEMENT (3)**

Identification and analysis of current trends, challenges, and issues that affect management of recreational sport facilities and programs. An examination of the history of the profession, current professional and research issues, along with anticipation and preparation for the future.

## **RTM 595CS. HUMAN RESOURCE MANAGEMENT IN RECREATIONAL SPORT (3)**

Provides an understanding and application of key concepts/practices in human resources management as related to the recreational sport industry.

## **Humanities**

### **CHS 595F. CHICANAS, CHICANA/O STUDIES, AND FEMINISM (3)**

Prerequisite: Completion of lower division writing requirement. Preparatory: Senior or Graduate status or permission from instructor. Critical analysis of Chicana feminism(s) from an interdisciplinary Chicana/o Studies perspective. The course will review feminist theories and conceptual developments, current debates, epistemological and methodological issues that have emerged as feminism has evolved. Feminist theories reviewed in the course include: liberal feminism; radical feminism; socialist feminism; postmodern feminism; and postcolonial feminism and the relationship of Chicana feminism(s) to these strands of feminism. Students will examine the links between the social construction of knowledge and gender, sexual orientation, race/ethnicity and class as significant categories of organization and identify the implications for research and political activism.

### **ENGL 495LNT. LITERATURE, NATURE AND TECHNOLOGY**

This seminar will explore various ways literature represents human relationships to nature and technology in a survey of works of fiction, poetry, and drama, with additional readings of non-fiction essays. Students will write two or three medium length papers (8-12 pages), one of close textual analysis, and one research paper.

# Experimental and Selected Topics

## **ENGL 496PC. ANGLOPHONE POSTCOLONIAL LITERATURE (3)**

Study of literature by writers from former colonies of the British Empire, including Ireland, India, parts of the West Indies, and parts of the African continent. Emphasis on the cultural forces of colonialism and their effects on literary production and forms.

## **Science and Mathematics**

### **BIOL 496TB. TROPICAL BIODIVERSITY (2)**

Intensive hands-on immersion into the systematics and evolutionary ecology of tropical biodiversity; taxonomic emphasis will vary with instructor expertise.

### **BIOL 496TBF. FIELD STUDIES IN TROPICAL BIODIVERSITY (1)**

Intensive hands-on immersion into the systematics and evolutionary ecology of tropical biodiversity; taxonomic emphasis will vary with instructor expertise.

### **BIOL 595HMG. HUMAN MOLECULAR GENETICS (3)**

Prerequisites: BIOL 360, BIOL 567. Survey of current techniques in molecular diagnostics, including the application of this techniques to screening and diagnosis of heritable disorders. Study of the HapMap Project, the Human Genome Project, and methods and applications of linkage studies to diagnosis.

### **BIOL 595TB. GRADUATE TROPICAL BIODIVERSITY (2)**

Intensive hands-on immersion into the systematics and evolutionary ecology of tropical biodiversity; taxonomic emphasis will vary with instructor expertise.

### **BIOL 595TBF. TROPICAL BIODIVERSITY FIELDWORK (1)**

Intensive hands-on immersion into the systematics and evolutionary ecology of tropical biodiversity; taxonomic emphasis will vary with instructor expertise.

### **PHYS 595CMP. COMPUTATIONAL MATERIALS PHYSICS (3)**

Preparatory: PHYS 375 or instructor consent. Use of computer simulations and modeling to understand materials physics.

## **Social and Behavioral Sciences**

### **PSY 396DC. DEVELOPMENT IN INFANCY AND EARLY CHILDHOOD (3)**

Prerequisite: Completion of lower-division writing requirement. Preparatory: PSY 150. Analysis of the physical, cognitive, social, emotional, and cultural aspects of development from conception through early childhood. Evaluation of theories, research findings, and research methods, and their implications for understanding development. Discussion of normative behaviors for particular ages, and cultural contexts of development in the early years.

## **Supplemental Instruction (SI)**

### **Supplemental Instruction (SI) University 60**

Earn one unit, CR/NC. Register for University 60, a facilitated study group for key courses that meets two hours a week.

### **Spring 2007 Courses**

Register online at [www.csun.edu/portal](http://www.csun.edu/portal) and select **Services for Students >Enroll in Classes**, or ask your advisor about:

- ✓ Chemistry 105
- ✓ Economics 160, 161, 310
- ✓ Math 102
- ✓ Philosophy 230
- ✓ Physical Science 170

*(including, but not limited to, the above courses)*

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