

COMPUTER SCIENCE

COUNSELING, EDUCATIONAL PSYCHOLOGY AND S CEP

910*. **Selected Topics in Computer Networks and Distributed Systems**
 Spring. 3(3-0) May reenroll for a maximum of 9 credits.
 P: CPS 421, CPS 812. R: Graduate Engineering Computer Science, Electrical Engineering
 Advanced topics and recent developments in high-bandwidth computer networks, protocol engineering, and distributed computer systems. Topics will vary from one semester to another. The course may be repeated for credit.
 QP: CPS 412 CPS 812CPS 881 QA: CPS 890

914*. **Selected Topics in Formal Methods in Software Development**
 Fall of even-numbered years. 3(3-0)
 May reenroll for a maximum of 9 credits.
 P: CPS 814. R: Graduate Engineering Computer Science
 Survey approaches to incorporating formal methods in software development. Current projects using formal methods in software engineering. Object-oriented analysis and development techniques.

920*. **Selected Topics in High Performance Computer Systems**
 Spring. 3(3-0) May reenroll for a maximum of 9 credits.
 Interdepartmental with the Department(s) of Electrical Engineering.
 P: CPS 822. R: Graduate Engineering Computer Science, Electrical Engineering
 Advanced topics in the design of high performance computer systems. Discussed in seminar format; content varies each time offered.
 QA: CPS 922

941*. **Selected Topics in Artificial Intelligence**
 Fall. 3(3-0) May reenroll for a maximum of 9 credits.
 P: CPS 841. R: Graduate Engineering Computer Science, Electrical Engineering
 Topic chosen from an area such as second generation expert systems, human factors, natural language processing, speech understanding, neural networks, genetic algorithms and opportunistic planning.
 QA: CPS 842

960*. **Selected Topics in Algorithms and Complexity**
 Fall. 3(3-0) May reenroll for a maximum of 9 credits.
 P: CPS 860, CPS 830 R: Graduate Engineering Computer Science Approval of Department
 Advanced topics and current research in the general theory of algorithms and computational complexity.
 QP: CPS 831 QA: CPS 911

980*. **Selected Optics in Database Systems**
 Spring. 3(3-0) May reenroll for a maximum of 9 credits.
 P: CPS 880 R: Graduate Engineering Computer Science, Electrical Engineering
 Advanced topics and recent developments in areas such as distributed and parallel database systems, object oriented database systems, knowledgebase and expert database systems.
 QA: CPS 890

999*. **Doctoral Dissertation Research**
 Fall, Spring, Summer. 1 to 12 credits.
 May reenroll for a maximum of 0 credits.
 R: Graduate Engineering Computer Science Approval of Department
 Doctoral dissertation research
 QA: CPS 999

240*. **Diverse Learners in Multicultural Perspective**
 Fall, Spring, Summer. 3(2-2)
 Interdepartmental with the Department(s) of Teacher Education.
 R: Not open to students with credit in TE

250.
 Communicative, linguistic, physical, sensory, behavioral, affective, and cognitive differences in learning in multicultural classrooms. Factors that mediate access to knowledge.
 QP: NONE QA: CEP 460

260*. **Dynamics of Personal Adjustment**
 Fall, Spring. 3(3-0)
 Psychological theories of human adjustment. Implications for effective learning, self-development, and adaptation.
 QP: NONE QA: NONE

261*. **Substance Abuse**
 Summer. 3(3-0)
 Effects of mood-altering chemicals. Treatment approaches and resources. Special emphasis on adolescent users.
 QP: NONE QA: NONE

341*. **American Sign Language and the Deaf Community**
 Fall, Spring, Summer. 2(2-0)
 Orientation to deaf culture. Essential signing for those expecting to have intermittent contact with deaf adults.
 QP: NONE QA: NONE

416*. **Teaching and Learning With Technology**
 Fall, Spring, Summer. 3(3-0-)
 R: Junior and above none none none
 Uses of computers and related technologies in the teaching/learning setting. Emphasis on the uses of computers as productivity tools for teachers and students.
 QP: NONE QA: CEP434 CEP836

428B*. **Elementary Curriculum and Instruction for the Mentally Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460 C: CEP 460C, CEP 467K R:
 Juniors & Seniors Education Special Education
 Curriculum and instruction for elementary school-aged mentally impaired students.
 QP: CEP 460 QA: CEP 428B

428C*. **Secondary Curriculum and Instruction for the Mentally Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460 C: CEP 467K, CEP 460C R:
 Juniors and Seniors Education Special Education
 Curriculum and instruction for secondary school-aged mentally impaired students.
 QP: CEP 460 QA: CEP 428C

441A*. **American Sign Language I**
 Fall, Spring, Summer. 3(3-0)
 P: CEP 341. R: Not open to freshmen and sophomores.
 Production, conversation, and grammatical analysis of American Sign Language.
 QA: CEP465D CEP465E

441B*. **American Sign Language II**
 Fall, Spring, Summer. 3(3-0)
 P: CEP 441A.
 More advanced lexical and syntactic structures of American Sign Language. Sentence types, verb inflections, aspect marking, and story telling. Translations between American sign language and English.
 QP: CEP 465D QA: CEP465E CEP465F CEP465G

442A*. **American Sign Language III**
 Fall, Spring, Summer. 4(3-2)
 P: CEP 441B.
 Use of space for multiple-person discourse. Formal register. Colloquial and idiomatic language. Applications to teaching in American Sign Language.
 QP: CEP465F CEP465G

442B*. **American Sign Language IV**
 Fall, Spring, Summer. 4(3-2)
 P: CEP 442A.
 Use of space for creative interpretation of literature, science, mathematics, socio-historical concepts. Formal register. Colloquial and idiomatic language.

443A*. **Tactile Communication Systems I**
 Fall. 3(1-4)
 Reading and writing standard English Braille notations and familiarity with textbook formats. History and development of Braille. Perkins Braillewriter and slate and stylus.
 QA: CEP 472A

443B*. **Tactile Communication Systems II**
 Spring. 3(1-4)
 P: CEP 443A
 Reading and writing Grade III Braille. Braille shorthand and music, foreign language, mathematics and scientific notations in combination with abacus usage. Textbook formats.
 QA: CEP 472C

444*. **Education of Students with Severe and Multiple Disabilities**
 Spring. 3(3-0)
 Definition of severe and multiple disability. Special education services for students with severe and multiple disabilities.
 QA: CEP 428D CEP 460B

460*. **Communication Skill Training for the Helping Professional**
 Fall, Spring, Summer. 3(3-0)
 R: Juniors or above none none none
 Interpersonal communication focusing on dynamics of listening process, one's own interpersonal style, and barriers to communication. Emphasis on self-study. Interpersonal process recall.
 QA: CEP 450

460C*. **Psychoeducational Characteristics of the Mildly Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460 C: CEP 466B or CEP 466C and CEP 466K; or CEP 428B or CEP 428C and CEP 467 <
 R: Juniors and Seniors Education Special Education
 Cognitive, affective, and social characteristics of the mildly impaired. Instructional practices that affect school learning and personal adjustment.
 QP: CEP 460 QA: CEP 460C

460I*. **Academic Assessment of the Mildly Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460, TE 310, TE 312, TE 315 C:
 CEP 460J, CEP 460K R: Juniors and Seniors Education Special Education
 Screening and placement procedures; terminology and interpretation of tests used for the assessment of intelligence, aptitude, achievement, personality, and interests of the mildly impaired.
 QP: CEP 460 TE 310TE 312TE 315 QA: CEP 460I

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- 460J*.** **Academic Instruction of Mildly Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460, TE 310, TE 312, TE 315 C:
 CEP 460I, CEP 460K R: Juniors and Seniors Educa-
 tion Special Education
 Education practices and remedial strategies for teach-
 ing academic skills to mildly impaired students.
 QP: CEP 460 TE 310TE 312TE 315 QA: CEP
 460J
- 460K*.** **Practicum: Special Education CORE**
 Fall, Spring. 3(0-12)
 P: CEP 460, CEP 310, TE 312, TE 315
 C: CEP 460I, CEP 460J R: Juniors and Seniors Edu-
 cation Special Education
 Supervised practicum in an educational program for
 mildly impaired learners.
 QP: CEP 460 TE 310TE 312TE 315 QA: CEP
 460K
- 466B*.** **Elementary Curriculum and Instruction for the Emotionally Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460 C: CEP 466K, CEP 460C R:
 Juniors and Seniors Education Special Education
 Curriculum and instruction for elementary
 school-aged emotionally impaired.
 QP: CEP 460 QA: CEP 466B
- 466C*.** **Secondary Curriculum and Instruction for the Emotionally Impaired**
 Fall, Spring. 2(2-0)
 P: CEP 460 C: CEP 460C, CEP 466K R:
 Juniors and Seniors Education Special Education
 Curriculum and instruction for secondary school-aged
 emotionally impaired students.
 QP: CEP 460 QA: CEP 466C
- 466K*.** **Practicum: Emotionally Impaired**
 Fall, Spring. 2(0-8)
 P: CEP 460 C: CEP 460C, CEP 466B or
 CEP 466C R: Juniors and Seniors Education Special
 Education
 Practicum in elementary and secondary school pro-
 grams for the emotionally impaired.
 QP: CEP 460 QA: CEP 466K
- 467K*.** **Practicum: Mentally Impaired**
 Fall, Spring. 2(0-8)
 P: CEP 460 C: CEP 428B, CEP 428C,
 CEP 460C R: Juniors and Seniors Education Special
 Education
 Supervised practicum in an educational program for
 mentally impaired learners.
 QP: CEP 460 QA: CEP 467K
- 800*.** **Learning in School and Other Settings**
 Fall, Spring, Summer. 3(3-0)
 R: Masters and above
 Learning as active, socially-mediated construction of
 knowledge in school, home, community, and work
 settings. What is learned, how it is taught and
 learned, and what learners bring to the setting.
 QA: CEP 811
- 801*.** **Psychological Development: Learner Differences and Commonalities**
 Fall, Spring, Summer. 3(3-0)
 P: CEP 412 R: Masters and above
 Development of differences and commonalities in
 learners across the lifespan. Contextual influences
 on development. Implications for learning in schools
 and other settings.
 QP: CEP 412 QA: CEP 812A
- 802*.** **Developing Positive Attitudes toward Learning**
 Fall. 3(3-0)
 P: CEP 800 R: Masters and above
 Behavioral individual difference and cognitive per-
 spectives on student motivation to learn.
- 803*.** **Psychodynamics of Self-Concept Development and Self-Understanding**
 Fall, Spring, Summer. 3(3-0)
 R: Masters and above
 Self-concept development from childhood through
 adulthood. Development of self-awareness and under-
 standing of one's personal and interpersonal style.
 Self-esteem enhancement strategies. Implications for
 teachers and learners.
 QA: CEP 851A CEP 851B
- 805*.** **Learning Mathematics**
 Spring. 3(3-0) Interdepartmental with
 the Department(s) of Teacher
 Education.
 R: Masters Only
 Learning and development of mathematical thinking
 and knowledge in school and other settings from
 perspectives of psychology, anthropology, mathemat-
 ics, and other disciplines. Implications for teaching.
- 806*.** **Psychological Foundations of Science Education**
 Fall. 3(3-0)
 R: Masters and above Education
 Psychological and epistemological perspectives under-
 lying various approaches to science education. In-
 structional implications emerging from these perspec-
 tives.
- 807*.** **Proseminar in Instructional and Educational Technology**
 Fall. 3(3-0)
 R: Masters and above
 Instructional development process and methods,
 including analysis, design, development and evalua-
 tion. Educational technology, including use of com-
 puters, interactive video and hyper-media.
 QA: CEP824 CEP830
- 808*.** **Instructional Design I**
 Fall. 3(3-0)
 R: Masters and above Education Ed.
 Psych/Instructional Technology emphasis, HALE
 Principles of instructional design. Goals, objectives,
 task description and analysis, and evaluation as
 applied primarily to course and unit design.
 QA: CEP 838A
- 809*.** **Instructional Design II**
 Spring. 4(2-4)
 P: CEP 808 R: Masters and above Educa-
 tion Educ Psych, Higher, Adult, and Lifelong Educa-
 tion
 Principles of instructional design and delivery applied
 to lessons; explanation, information processing, trans-
 fer, demonstration, practice, mental set motivation,
 exposition vs. discovery of facts, concepts, principles
 and skills.
 QP: CEP 838A QA: CEP 838B
- 810*.** **Teaching for Understanding with Computers**
 Fall. 3(3-0)
 P: CEP 416 or CPS 100 R: Masters and
 above Education Educational Psychology
 Application of cognitive theory for learning to use and
 teaching others to use various types of computer
 applications pertaining to education with a focus on
 teaching for understanding.
 QP: CEP 434 QA: CEP 834A
- 811*.** **Advanced Educational Applications of Computers**
 Fall, Spring. 3(3-0) May reenroll for
 a maximum of 6 credits.
 P: CEP 810 R: Masters and above
 Implications of cognitive theory for knowledge transfer
 and problem-solving in education and training. Em-
 phasis on knowledge representation, system develop-
 ment and product evaluation.
 QP: CEP 834A
- 812*.** **Applying Instructional Technology for Clients**
 Spring. 3(3-0)
 P: CEP 807 R: Masters and above
 Application of instructional technology to course
 development. Instructional systems and centers for
 classroom education and industrial training. Needs
 analysis. Course or system design, development and
 evaluation.
 QP: CEP 824 CEP 830 QA: CEP 935
- 813*.** **Using Technology to Improve Student Problem Solving Skills**
 Spring, Summer. 3(3-0)
 P: CEP 810
 General problem solving literature. Potential of
 technology in problem solving. Approaches to inte-
 grating technology and problem solving in teaching.
 QP: CEP 834A QA: CEP 834C
- 814*.** **Teaching School Subject Matter with Technology**
 Fall, Summer. 3(3-0)
 Interdepartmental with the
 Department(s) of Teacher Education.
 R: Masters and above
 Rationales for use of technology in teaching subject
 matter. Match between technology & alternative
 learning styles. Models for teaching subject matter
 via technology.
 QA: CEP 446B CEP 446A
- 817*.** **Ability as Social Construction: Problems and Practices**
 Spring. 3(3-0) Interdepartmental with
 the Department(s) of Teacher
 Education.
 R: Master's Education
 Ability viewed as a social construction, with historical,
 social and cultural roots. Implications for the educa-
 tion of a diverse student body.
- 819*.** **Proseminar II: Psychological Bases of Literacy Instruction**
 Spring. 3(3-0)
 P: TE 840 R: Open only to students in
 M.A. literacy instruction program
 Psychological foundations of literacy instruction,
 including models, theories, psychological processes,
 social and contextual factors, and text features.
 QA: TE 819B TE 819C
- 821*.** **Measurement and Evaluation for Counseling and Development**
 Fall. 3(3-0)
 R: Masters and above NONE NONE
 NONE
 Assessment of intelligence, aptitude, achievement,
 interests, career development, work and personal
 values, and personality.
 QA: CEP401
- 822*.** **Approaches to Educational Inquiry**
 Fall, Spring, Summer. 3(3-0)
 R: Masters and Doctoral Students
 Rationale for empirical studies in education. Empha-
 sis on alternative approaches and uses of inquiry
 through case examples.
 QA: CEP 803 CEP 804
- 824*.** **Classroom Assessment**
 Fall, Spring. 3(3-0)
 Interdepartmental with the
 Department(s) of Teacher Education.
 R: Seniors and above Education
 Basic assessment for classroom teachers. Design,
 develop and use of objective and judgmental methods
 for assessing student progress.
 QP: NONE QA: CEP400

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- 826*.** **Evaluation of Educational Programs and Policies**
 Spring. 3(3-0) *Interdepartmental with the Department(s) of Teacher Education.*
 P: CEP 822 or Equivalent R: Masters and Above
 Methods to assess the effectiveness of public policies and the programs originated by these policies. Theory and practice of program evaluation.
 QP: CEP 803 QA: CEP 808
- 840*.** **Introduction to Educating Deaf Children**
 Fall. 4(3-1)
 P: CEP 441; CEP 442A; CEP 442B; Admission to Deaf Education Masters Pro R: Masters and above Education Special Education: Deaf Education Emphasis
 Political, social, methodological, historical, philosophical, and legal issues in educating deaf children and youth.
 QA: CEP865K
- 841*.** **Educational Provisions for Deaf Children**
 Fall. 3(3-0)
 P: CEP 441; CEP 442A; CEP 442B; Admission to Deaf Education Masters Prog. <F
 R: Masters and Above Education Special Education: Deaf Education emphasis
 Adaptation of educational methods, materials, and curriculum for deaf students.
 QA: CEP465A
- 842A*.** **Language Development in Deaf Children: Elementary**
 Fall. 3(3-0)
 P: CEP 442A R: Masters Candidates Education / ASC Spec. Ed.: Deaf Educ. Emphasis and Audiology / Speech Science
 Language acquisition and development in deaf children. Materials and methods for assessment and instruction in American Sign Language and English.
 QP: CEP465D QA: CEP465B
- 842B*.** **Language Development in Deaf Children: Secondary**
 Fall. 3(3-0)
 P: CEP 442A R: Graduate Students Education, ASC Spec. Ed.: Deaf Educ. Emphasis and Audiology / Speech Science
 Language development in deaf adolescents. Materials and methods for assessment and instruction in American Sign Language and English.
 QP: CEP465 QA: CEP865B
- 843*.** **Teaching and Learning in Different Communication Modalities**
 Fall. 4(3-2)
 P: CEP442A R: Masters Candidates Only Education / Comm Arts Spec. Ed.: Deaf Educ. Emphasis and Audiology / Speech Science
 Use of speech, audition, signs, and print in the education of deaf children.
 QP: CEP465D QA: CEP465C CEP465F
- 845*.** **Educational Technology in Special Education**
 Fall. 3(1-4)
 R: Graduate Students Education Special Education: Deaf Ed. & Blind Education Emphasis
 Technological adaptations for communication, including low technology and high technology and innovative uses for common devices.
 QP: 472A 472C QA: 472E
- 846*.** **Formal and Informal Assessment in Special Education**
 Spring. 3(2-2)
 P: CEP 240 R: Masters and above Education Special Education
 Methods, techniques, and instruments for identifying and diagnosing academic problems. Interpretation of diagnostic profiles for the mildly impaired.
 QP: CEP 869ACEP 869B QA: CEP869F
- 847A*.** **Evaluation and Remediation for Elementary Mildly Impaired Students**
 Fall. 3(3-0)
 P: CEP 240, CEP 846 C: CEP 893D R:
 Masters and Above Education Special Education
 Strategies for the evaluation and remediation of reading and written language disorders of mildly impaired students. Procedures for the development and modification of reading and writing programs.
 QP: CEP 869B QA: CEP869F
- 847B*.** **Evaluation and Remediation for Secondary Mildly Impaired Students**
 Fall. 3(3-0)
 P: CEP 240, CEP 846 C: CEP 893E R:
 Masters and above Education Special Education
 Strategies for evaluation and remediation of reading and written language disorders of mildly impaired students. Procedures for the selection, development, evaluation, and modification of reading and writing programs.
 QP: CEP 869B QA: CEP869F
- 848A*.** **Diagnosis and Remediation of Math Problems: Elementary**
 Spring. 3(3-0)
 P: CEP 240 & CEP 846 C: CEP 893E R:
 Masters and Above Education Special Education
 Techniques and instruments for identifying and remediating learning problems in the content areas at the elementary level.
 QP: CEP460 QA: CEP869G
- 848B*.** **Diagnosis and Remediation of Math Problems: Secondary**
 Spring. 3(3-0)
 P: CEP 240, CEP 846 C: CEP 893E R:
 Master's and above Education Special Education
 Techniques and instruments for identifying and remediating learning problems in the content areas at the secondary level.
 QP: CEP460 CEP869ACEP869B QA: CEP869G
- 849*.** **Behavior Management: Consultation and Practice**
 Spring. 3(3-0)
 P: CEP 240 R: Masters and above Education Special Education
 Behavior management practices, including applied behavior analysis, social skills acquisition through cooperative learning and cooperative discipline. Consultation skills focusing on problem-solving and peer collaboration.
 QA: CEP869J
- 850*.** **Models of Special Education Consultation**
 Spring. 3(3-0)
 P: CEP 240 R: Master's and above Education Special Education
 Methods, techniques, and models of consulting with teachers and parents. Consultant skills, including role identification, problem-solving techniques, individual and group communication processes.
 QP: CEP460 QA: CEP869D
- 851*.** **Models of Special Education Administration and Services**
 Spring. 3(3-0) *Interdepartmental with the Department(s) of Educational Administration.*
 P: CEP 240 R: Masters and above Education Special Education
 Application of theory and research to special education program design and implementation.
 QP: CEP460 QA: CEP875D CEP869D
- 853*.** **Special Education Law**
 Fall. 3(3-0)
 R: Seniors and above
 Analysis of State and Federal regulations, guidelines and court decisions related to special education and examination of their impact.
 QA: CEP875C
- 854A*.** **Blind Children In Elementary Education**
 Fall. 5(2-6)
 Curricula, methods, media and support services for teaching sensory concept development, communication and other skills to blind and low vision children for access to the basic curriculum of general education.
 QA: CEP 472B CEP 472E
- 854B*.** **Clinical Teaching: Blind Children In Elementary Education**
 Spring. 1 to 10 credits. *May reenroll for a maximum of 10 credits.*
 P: CEP 443A, 443B, 854A R: Masters and above
 Supervised student teaching in elementary education programs for blind and visually impaired children.
 QA: CEP 870K
- 855A*.** **Education of Blind Youth in Secondary Education**
 Spring. 3(1-4)
 R: Masters and above
 Life adjustment and community education curriculum. Enabling skills that blind youth need for a successful transition from school to work.
 QA: CEP 472D
- 855B*.** **Clinical Teaching: Blind Youth in Secondary Education**
 Spring. 1 to 10 credits. *May reenroll for a maximum of 10 credits.*
 P: CEP 443A, 443B R: Masters and above
 Supervised student teaching in secondary education programs for blind and visually impaired youth.
 QA: CEP 870
- 856A*.** **Education of Deaf-Blind Children and Youth**
 Fall. 4(3-2)
 R: Masters and above
 Assessing and teaching deaf-blind elementary and secondary students in sensory skills, behavior management and modification, language, communication and independent living.
 QA: CEP 471A CEP 471D
- 856B*.** **Clinical Teaching: Deaf-Blind Children and Youth**
 Spring. 1 to 10 credits. *May reenroll for a maximum of 10 credits.*
 R: Masters and above Approval of Department
 Supervised student teaching in elementary and secondary education programs for deaf-blind students.
 QA: CEP 871 CEP 871K
- 857A*.** **Principles of Orientation and Mobility**
 Fall. 2(1-3)
 R: Masters and above
 Adaptive travel techniques, navigation, environmental awareness and concept development for students with blindness and other disabilities.
 QA: CEP 472G
- 857B*.** **Techniques of Orientation and Mobility**
 Fall. 3(1-4)
 R: Masters and above
 Methods of navigation related to blindness. Structure, function and problems with the proprioceptive system in relation to orientation and mobility.
 QA: CEP 472I
- 857C*.** **Advanced Techniques of Orientation and Mobility**
 Spring. 0(1-4)
 R: Masters and above Priority to Majors in Teaching Blind Children & Youth
 Blindfold and low vision simulation of the skills, techniques, and teaching methods for negotiating the range of outdoor environments from rural and residential to complex business areas.
 QA: CEP 472J

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- 860*** **Stress Management**
 Fall. 3(3-0)
 R: Masters and above
 Physiological and psychological foundations of the human stress response. Therapeutic approaches to stress management.
 QA: CEP 850B
- 861*** **Counseling, Theory, Philosophy, and Ethics**
 Fall. 3(3-0)
 R: Masters and above Education Students
 in Cnslng, Rehab Cnslng, School Psychology
 Selected counseling theories. Foundations of ethical decision-making. Professional standards, guidelines, and issues concerning the training and work of the counselor and school psychologist. Legal issues and precedents.
 QP: CEP 840A QA: CEP 840B
- 862*** **Counseling: Introduction to Individual and Group Processes**
 Fall. 3(3-0)
 C: CEP 861 R: Masters and above Education, Social Work, Human Ecology
 Counselor skill in individual and group counseling. Forming, working with, and ending groups. Building relationships. Handling obstacles. Developing and carrying out agendas in counseling. Simulated individual and group practice.
 QA: CEP 840A CEP 840J
- 863*** **Counseling & Consulting Models & Strategies**
 Spring. 3(3-0)
 P: CEP 861, CEP 862 R: Graduate Only
 Education Counseling, School Psychology, Rehabilitation Counseling
 Models and strategies for working with children, adolescents, and adults in counseling and consulting roles. Developing working relationships, assessing problems, setting goals, planning treatments, and evaluating outcomes.
 QP: CEP 840ACEP 840B QA: CEP 840E CEP 840D
- 864*** **Career Counseling**
 Spring. 3(3-0)
 R: Masters and above Education
 Application of career development theories and labor market and occupational information in assessing and planning aspects of career counseling with various populations.
 QA: CEP 840C
- 870*** **Foundations of Rehabilitation Counseling**
 Fall. 3(3-0)
 R: Graduate Students Rehabilitation
 Counseling Instructor Approval
 Rehabilitation counseling history, philosophy, values, legislation, policy and practice.
 QA: CEP 842A
- 871*** **Medical and Psychological Aspects of Disability**
 Fall. 3(3-0)
 R: Graduate Students Only
 Functional implications of physical, cognitive and emotional disabilities for vocational rehabilitation. Psychosocial adjustments to chronic diseases and disability.
 QA: CEP 842M CEP 842P
- 872*** **Social and Environmental Aspects of Rehabilitation**
 Spring. 3(3-0)
 R: Graduate Students Only
 Social and political factors that handicap individuals with disabilities. The Independent Living movement, philosophy, legislation and services. Use of accommodations and enabling technology. Attitude change and client empowerment.
 QA: CEP 842K
- 873*** **Employment Strategies for Individuals with Disabilities**
 Fall. 3(3-0)
 R: Graduate Students Only
 Public policy, resources, and intervention strategies for assisting persons with disabilities to achieve vocational outcomes, and for assisting employers in accommodating and retaining employees with disabilities
 QA: CEP 842B CEP 842D
- 874*** **Habilitation Strategies**
 Summer. 3(3-0)
 R: Graduate Students
 Historical, philosophical, legislative, theoretical and operational aspects of the transition to work for individuals with developmental and other severe disabilities.
 QA: CEP 842Q
- 875*** **Substance Abuse and Treatment**
 Summer. 3(3-0)
 R: Masters and above
 Physical, intellectual, social and psychological effects of chemical use and abuse. Assessment tools and strategies for therapeutic intervention. Application to special populations including adolescents, women and minorities.
- 876*** **Professional Issues in Rehabilitation Counseling Practice**
 Spring. 3(3-0)
 P: CEP 870 C: Rehabilitation Counseling
 Internship R: Masters Only Education Rehabilitation Counseling
 Applications of case management strategies, processes and practices in rehabilitation counseling.
 QP: CEP 842A QA: CEP 842L
- 880*** **Individual Measurement-Binet and Wechsler**
 Fall. 3(3-0)
 P: CEP 820 or CEP 821 R: Open only to Ed. S. and Ph.D. candidates Education School Psychology, Counseling Psychology
 Measurement of intelligence with the Binet and Wechsler scales. Observation, practice, supervision, interpretation, and report writing in an educational setting.
 QP: CEP 400 ORCEP 401ORPSY 415 QA: CEP 802A CEP 802B
- 881*** **Personality Assessment**
 Spring. 3(3-0)
 P: CEP 821, CEP 885, PSY 475 R: Masters and above
 Projective and objective personality assessment of children and adolescents in school.
 QP: CEP 401 CEP818APSY427A QA: CEP802C
- 882*** **Seminars in Counseling, Educational Psychology & Special Education(MTC)**
 Fall, Spring, Summer. 3(3-0)
 Seminars in the various fields of emphasis in Counseling, Educational Psychology and Special Education.
- 882A*** **Cognition, Education, and Bilingualism/Biculturalism**
 Spring of even-numbered years. 3(3-0)
 R: Open to Masters and above Education
 Cognitive theories of bilingualism. Development of bilingualism. Implications of research for educating bilingual/bicultural children.
 QA: CEP 982
- 883*** **Psychology of Classroom Discipline**
 Summer. 3(3-0)
 R: Graduate Status Education Teaching
 Experience
 Positive strategies for the resolution of classroom discipline.
 QA: CEP 814
- 884*** **Roles and Functions of School Psychologists: Focus on Consultation**
 Spring. 3(3-0)
 P: CEP 880, CEP 801, CEP 821 R: Graduate Students School Psychology Students or Permission of Instructor
 Multiple roles of school psychologists from a systems perspective. Consultation strategies for working with schools and families. Historical, legal, ethical, and cultural issues in practice.
 QP: CEP 802ACEP 812ACEP 401CEP 802B
 QA: CEP 818B
- 885*** **Behavior Disorders in Children**
 Fall. 3(3-0)
 R: Masters and above 12 Graduate
 Credits in Educ Psych or a related area
 Characteristics, causes and treatment of school related behavior disorders in children within a developmental framework.
 QA: CEP 818A
- 890*** **Reading and Independent Study in CEP**
 Fall, Spring, Summer. 1 to 6 credits.
 May reenroll for a maximum of 9 credits.
 R: Open only to M.A. and Ph.D. students
 Individual or group study in the various areas of Counseling, Educational Psychology, and Special Education.
- 891A*** **Rehabilitation Counseling Internship**
 Fall, Spring, Summer. 9(1-40)
 P: CEP 894A R: Masters Only Education
 Rehab. Counseling Majors
 Supervised internship experience in community rehabilitation settings.
 QP: CEP 840F QA: CEP 842J
- 893B*** **Internship in School Psychology**
 Fall, Spring. 3(0-20)
 P: CEP 894B R: Educ. Specialist Education School Psychology
 Supervised experience in the practice of school psychology. Diagnostics, consultation and intervention.
 QP: CEP 802ACEP 802BCEP 802CCEP 818ACEP 869B QA: CEP 818C
- 893C*** **Counseling Internship**
 Fall, Spring. 3 to 12 credits in increments of 3 credits. May reenroll for a maximum of 12 credits.
 P: CEP 865 R: Masters and Above Education School/Agency Counseling
 Application and integration of knowledge and skills in counseling individual and groups in schools and agencies. Assessment, implementation of interventions, and evaluation of outcomes in field settings.
 QA: CEP 884 CEP 840F CEP 840G
- 893D*** **Internship in Teaching: Deaf Education (Elementary)**
 Spring. 4 to 9 credits. May reenroll for a maximum of 9 credits.
 P: CEP 840; CEP 841; CEP 842A; CEP 843 R: Masters and above Education Special Education: Deaf Education Emphasis
 Supervised teaching of deaf students in a public school or school for deaf children.
 QA: TE 473
- 893E*** **Internship in Teaching: Deaf Education (Secondary)**
 Spring. 4 to 9 credits. May reenroll for a maximum of 9 credits.
 P: CEP 840, CEP 841, CEP 842A, CEP 843 R: Masters and above Education Special Education: Deaf Education Emphasis
 Supervised teaching of deaf students in a public school or school for deaf children.
 QA: TE 473

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- 893F*** **Special Education Internship in Teaching: Elementary**
Fall, Spring. 4 to 9 credits. May reenroll for a maximum of 9 credits.
P: CEP 240 R: Masters and above Education
Special Education: Mildly Impaired/Elementary Emphasis
Supervised experience with mildly impaired, learning disabled students in elementary schools or clinical settings.
QP: CEP460 QA: CEP869K
- 893G*** **Special Education Internship in Teaching: Secondary**
Fall, Spring. 1 to 9 credits. May reenroll for a maximum of 9 credits.
P: CEP 240 R: Masters and above Education
Special Education: Mildly Impaired/Secondary Emphasis
Supervised experience with mildly impaired, learning disabled students in secondary schools or clinical settings.
QP: CEP460 QA: CEP869K
- 894A*** **Rehabilitation Counseling Practicum**
Fall, Spring. 6(3-12)
P: CEP 862 R: Masters Education Rehabilitation Counseling Majors Only
Supervised practicum in a rehabilitation or human services setting.
QP: CEP 840A QA: CEP 840F
- 894B*** **School Psychology Practicum**
Fall, Spring. 3(3-2)
P: CEP 880, CEP 885, CEP 846 C: CEP 846 R: Ed. S. and Above Education School Psychology
Administration and interpretation of individual scales, report writing, consultation and team decision making.
QP: CEP 802ACEP 802BCEP 818A QA: CEP 818C
- 894C*** **Counseling Practicum**
Fall, Spring. 4(3-5)
P: CEP 863 R: Masters and above Education Counseling
Supervised counseling experiences in selected schools and agencies followed by analysis and critique of these experiences through group and individual consultation with the instructor.
QP: CEP 840DCEP 840E QA: CEP 840F CEP 840G
- 894D*** **Practicum in Educational Psychology**
Fall, Spring, Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits.
R: Masters and above
Practicum for students working in field sites.
- 894E*** **Practicum in Orientation and Mobility**
Spring. 1 to 10 credits. May reenroll for a maximum of 10 credits.
P: CEP 857C R: Masters and above
Student teaching of independent travel to visually impaired and blind students in elementary and secondary education.
QA: CEP 472K CEP 473K
- 899*** **Master's Thesis Research**
Fall, Spring, Summer. 0(-)
- 900*** **Cultural Perspectives on Learning and Development**
Spring of even-numbered years. 3(3-0)
P: CEP Learning in in School & Other...; CEP 8xx Dev. of Learners Dif. R: Masters and above.
Theories and research in cultural psychology. Examines nature and development of cultural influences on learning and schooling. Implications for educational practice and working with individuals from diverse cultures.
QP: CEP 812ACEP 811
- 901*** **Proseminar in Educational Psychology II**
Spring. 3(3-0)
P: CEP 900 R: Ph.D Only Education
CEPSE
Historical, theoretical, empirical, methodological, and philosophical issues in educational psychology. Psychological research on learning, teaching, subject matter, and social-cultural contexts.
QA: CEP 911
- 902*** **The Psychology of Learning School Subjects**
Spring of even-numbered years. 3(3-0)
R: Ph.D. Only
Psychological theories and research regarding learning and teaching of school subjects, including mathematics, science, and reading. Psychological analyses of learning contexts in and out of school, transfer, and representation of knowledge.
QA: CEP 917
- 903*** **Cognitive Development across the Lifespan**
Fall. 3(3-0)
P: CEP 801 R: Doctoral Students
Development of thinking skills related to learning across the lifespan. Issues in development from three theoretical perspectives. Relationship between cognitive development and learning in schools and other contexts.
QP: CEP 812A
- 904*** **Social-Emotional Development across the Lifespan**
Spring of odd-numbered years. 3(3-0)
P: CEP 801 or CEP 803 R: Ph.D. Only
Qualitative and quantitative changes in emotional, and social aspects of human development across the lifespan.
QP: CEP 812 ORCEP 813ORCEP 812B
- 905*** **Cultural Perspectives on Learning and Development**
Spring of even-numbered years. 3(3-0)
P: CEP 800, CEP 801 R: Masters and above
Nature and development of cultural influences on learning and schooling. Implications for educational practice and working with individuals from diverse cultures.
QP: CEP812A CEP 811
- 906*** **Sociocultural Bases of Cognition and Education**
Fall of even-numbered years. 3(3-0)
R: Doctoral Education
Theoretical perspectives and practical implications of considering the social and cultural-historical mediation of human cognition. Emphasis on the formative role of educational contexts in influencing both what and how we think, feel, and act.
- 907*** **Psychological Study of Teaching**
Fall of odd-numbered years. 3(3-0)
Interdepartmental with the Department(s) of Teacher Education.
R: Doctoral
Psychological aspects of teachers and teaching. Decision-making. Learning from experience. Developmental changes.
QA: CEP 913
- 908*** **Instructional Theories**
Spring of even-numbered years. 3(3-0)
P: CEP 808, CEP 809 R: Masters and above Education Educational Psychology
Characteristics of instructional design theories, early theories, theories derived from learning theories, other instructional theories. Empirical inquiry, specific subject matters, and meta theories.
QP: CEP 811 CEP838ACEP838B QA: CEP 911
- 909*** **Cognition and Technology**
Spring. 3(3-0)
R: Doctoral Only
Technology in education. Theories and research on cognition and technology. Epistemological, social, ethical and policy issues raised by technology. Computer as metaphor for mind. Representational systems.
- 910*** **Current Issues in Motivation and Learning**
Spring of even-numbered years. 3(3-0)
R: Ph.D Education
Enduring questions about motivation and learning. Role of skill vs. will in motivation. Higher order thinking in learning.
- 912*** **Psychology and Pedagogy of Literacy**
Fall of even-numbered years. 3(3-0)
Interdepartmental with the Department(s) of Teacher Education.
R: Masters and above
Psychological, historical, and methodological foundations of research and practice in literacy instruction.
QA: CEP 919
- 913*** **Psychology and Pedagogy of Mathematics**
Fall of odd-numbered years. 3(3-0)
Interdepartmental with the Department(s) of Teacher Education.
P: CEP 902 R: Doctoral Students Education
Psychological theory and research on the learning of mathematics. School mathematics content. Development of mathematical thinking and knowledge in school and other settings.
QP: CEP 917
- 914*** **Psychology and Pedagogy of Science**
Spring of even-numbered years. 3(3-0)
Interdepartmental with the Department(s) of Teacher Education.
R: Doctoral Students Education
Psychological and epistemological aspects of learning and teaching science.
- 915*** **Language, Literacy and Learning**
Spring of even-numbered years. 3(3-0)
Interdepartmental with the Department(s) of Teacher Education.
R: Doctoral Education
Role of language in mediating cognition, affect, and action in educational contexts. Relationship between oral and literate discourse and the sociocultural nature of educational contexts.
QA: CEP 915
- 916*** **Technology and Education**
Spring of even-numbered years. 3(3-0)
R: Ph.D.
Issues in technology. Implementation of technologies in school and non-school contexts for diverse populations.

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- 917*.** **Current Issues in Educational Technology**
Fall of odd-numbered years. 3(3-0)
R: Doctoral Only
Recent developments in hardware, software and implementation of technology in education. Schools and universities making innovative uses of technology.
- 918*.** **School-Based Psychological Interventions**
Spring of odd-numbered years. 3(3-0)
R: Doctoral students only education
School-Psych, Counseling, Educ Psych, Spec Educ, Social Work
Direct and indirect school-based psychological interventions focusing on children, teachers, administrators, programs and organizations.
- 919*.** **Current Research and Issues in School Psychology**
Spring of even-numbered years. 3(3-0)
P: CEP 904, CEP 401 R: Ph.D. Education
School Psychology, Counseling Psychology, Special Education
Selected areas in school psychology including role function, diagnosis and eligibility concerns, innovative educational and behavioral interventions.
- 920*.** **Educational Assessment**
Fall. 3(3-0)
R: Masters and above NONE NONE
NONE
Principles of educational assessment including teacher-made and standardized techniques. Grading, policy issues, affective and performance measurement.
- 921*.** **Psychometric Theory I**
Spring. 3(3-0)
P: CEP 930; CEP 920 or CEP 821 R:
Masters and Above
Classical test theory. Generalizability theory. Item response theory. Reliability and validity of criterion referenced tests. Differential item functioning.
QP: CEP 400 CEP 401 CEP 904 QA: CEP 800
- 922*.** **Psychometric Theory II**
Fall of odd-numbered years. 3(3-0)
P: CEP 921 and one statistics course. R:
Ph.D. Only
Expansion of generalizability theory, test and item bias and equating. Measurement of change, profile analysis, scaling approaches and validity generalization.
QP: CEP 800 QA: CEP 900A
- 923*.** **Item Response Theory**
Spring of even-numbered years. 3(3-0)
P: CEP 921, CEP 933 R: Graduate Students Only NONE NONE NONE
Item response theory test construction, scaling, and equating for applied researchers.
QP: CEP 800 CEP 905 QA: CEP 940
- 924*.** **Legal and Policy Issues in Assessment and Statistics**
Spring of odd-numbered years. 3(3-0)
P: CEP 821 or CEP 824 or CEP 920 R:
Graduate Students Only
Assessment cases and the use of statistics in legal arguments from both legal and policy perspectives.
QP: CEP 400 CEP 401 QA: CEP 939
- 930*.** **Educational Inquiry**
Fall. 4(4-0) Interdepartmental with the Department(s) of Teacher Education.,
R: Graduate Students
Alternative approaches to educational inquiry: Quantitative, interpretive, and customized. Theoretical assumptions, sources of questions, data collection and analysis, and rhetoric.
- 933*.** **Quantitative Methods in Educational Research**
Spring. 4(4-0) Interdepartmental with the Department(s) of Teacher Education.,
P: CEP 822 or CEP 930 R: Masters and
Above
Techniques of data analysis and statistical inference commonly used in educational and psychological research. Multiple regression, analysis of variance, and the basic principles of experimental design.
QP: CEP 904 QA: CEP 905 CEP 906
- 934*.** **Multivariate Data Analysis**
Fall. 4(4-0)
P: CEP 933 R: Masters and above NONE
NONE NONE
Multivariate methods, matrix algebra, and the general linear model.
QP: CEP 906 CEP 942
- 935*.** **Advanced Topics in Multivariate Data Analysis**
Spring of even-numbered years. 4(4-0)
P: CEP 934 R: Masters and above NONE
NONE NONE
Application of discrete and continuous multivariate methods in educational research.
QP: CEP 906 QA: CEP 942
- 936*.** **Synthesis of Educational Research**
Spring of odd-numbered years. 4(4-0)
P: CEP 933 R: Doctoral Students NONE
NONE NONE
Synthesis and meta-analysis in educational research.
QP: CEP 906
- 939*.** **Seminar in Educational Measurement**
Fall of even-numbered years. 3(3-0)
P: CEP 921 R: Doctoral Status NONE
NONE NONE
Current issues in educational measurement.
QP: CEP900A QA: CEP900B
- 940*.** **Policy and Trends in Special Education**
Spring. 3(3-0)
R: Doctoral Status Education
Policy analysis of economic, social, legal and organizational trends in special education within the theoretical framework of organizational change.
QA: CEP 976
- 941*.** **Academic Issues in Special Education for At-Risk Students**
Fall. 3(3-0)
R: Doctoral Students Education Special
Education
Academic assessment and instructional research in special education. Inquiry in special education related to the design and evaluation of academic programs.
QA: CEP911
- 942*.** **Issues in Special Education for Low-Incidence Populations**
Fall of even-numbered years. 3(3-0)
R: Doctoral Education
Practice and policy relating to the educational consequences of deafness, blindness, deaf-blindness and other severe disabilities.
QP: CEP460
- 943*.** **Multicultural Issues in Special Education**
Spring. 3(3-0)
R: Doctoral Students College of Education
Relationships among race, gender, culture, social class, and disability. Individual, group and societal responses to disability. Anthropological, social and psychological theories about origins of diversity.
- 944*.** **Research Practicum in Special Education**
Fall. 3(3-0)
R: Doctoral Students Education Special
Education
Application of research methods in special education. Topics include data collection, analysis, interpretation, and dissemination.
QP: CEP 911
- 949*.** **Critical Issues in Special Education**
Spring. 3(3-0)
R: Doctoral Students Education
Advanced topics in special education including cognition and sensory impairments, literacy for at-risk students, program design, small sample research, and staff development.
- 960*.** **Theoretical Foundations of Counseling Psychology**
Fall. 3(3-0)
R: Doctoral students Education Counsel-
ing Psychology, School Psychology
Theoretical models of counseling, personality, and behavior change. Research on the process and outcomes of counseling. Selected professional issues in counseling psychology.
QA: CEP 948A
- 961*.** **Multicultural Perspectives in Counseling Psychology**
Fall. 3(3-0)
R: Doctoral Students Education, Social
Science and Human Ecology Counseling Psych, Clinical Psych & Marriage & Fam Therapy
Cultural, gender and disability dynamics as they affect human functioning and counseling psychology practices.
QA: CEP 957
- 962*.** **Psychology of Career Development**
Spring. 3(3-0)
P: CEP 864 R: Doctoral
Theories of career choice and development with emphasis on psychological processes underlying vocational behavior.
QP: CEP 840C QA: CEP 948B
- 963*.** **Ethics in Counseling Psychology**
Spring. 3(3-0)
R: Graduate students Education, Human
Ecology Couns Psych, Rehab Couns, Child & Fam
Ecology & School Psych
Foundations of ethical decision making. Professional ethics, standards, principles, guidelines, and issues concerning the training and work of the counseling psychologist. Selected legal issues and precedents.
QA: CEP 953
- 966*.** **Psychological Diagnosis and Assessment I**
Fall. 3(3-0)
P: CEP 960 C: CEP 994A R: Doctoral
Students Education Counseling Psychology
Psychological diagnostic categories including etiology, prevalence, predisposing factor and differential diagnosis. Introduction to objective measures for psychological assessment.
QP: CEP 948A QA: CEP 902A CEP 954 CEP 902B
- 967*.** **Psychological Diagnosis and Assessment II**
Spring. 3(3-0)
P: CEP 966 C: CEP 994B R: Doctoral
Students Education Counseling Psychology
Advanced diagnostic and assessment skills and instruments required for counseling psychologists.
QA: CEP 902B CEP 954 CEP 902A

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968*. **Research in Counseling Psychology**
Fall. 3(3-0)
P: CEP 933 R: Doctoral Students Only
Education Counseling Psychology
Research topics and designs in counseling psychology with emphasis on the development of a viable research proposal.
QP: CEP 906 QA: CEP 952

969*. **Counseling Psychology Supervision**
Fall. 3(2-3)
P: CEP 994B, CEP 967 R: Doctoral Students
Education Counseling Psychology & School Psychology
Theoretical, empirical and practical aspects of the supervisory relationship. Process and outcome variables in supervision.
QP: CEP 956C

982*. **Seminars in Counseling, Educational Psychology and Special Education(MTC)**
Fall, Spring, Summer. 3(3-0)
R: Open only to Ph.D. Students
Education
Seminars in the various fields of emphasis in Counseling, Educational Psychology and Special Education.

982A*. **Literacy Learning for At-Risk and Special Education Students**
3(3-0)
R: Graduate Education
Current issues in learning and literacy. Factors that mediate the literacy learning of at-risk and special education students.

990*. **Readings and Independent Study in CEP**
Fall, Spring, Summer. 1 to 6 credits.
May reenroll for a maximum of 9 credits.
R: Ph.D. Students
Individual or small group study in the areas of Counseling, Educational Psychology and Special Education.

991A*. **Special Topics in Educational Psychology**
Fall, Spring, Summer. 1 to 6 credits.
May reenroll for a maximum of 9 credits.
R: Open only to Doctoral students
Problems, topics and issues in Educational Psychology.
QA: CEP 911

991B*. **Special Topics in Educational Statistics and Research Design**
Spring. 4(4-0)
P: CEP 932 R: Doctoral Students
Problems, topics and issues in educational statistics and research design.
QP: CEP 906

994A*. **Counseling Psychology Practicum I**
Fall. 3(0-9)
P: CEP 960 C: CEP 966 R: Doctoral Students
Education Counseling Psychology
Supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.
QP: CEP 948A QA: CEP 956A CEP 956B

994B*. **Counseling Psychology Practicum II**
Spring. 3(0-9)
P: CEP 994A C: CEP 967 R: Doctoral Students
Education Counseling Psychology
Intermediate supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.
QA: CEP 956C

994C*. **Advanced Practicum in Counseling Psychology**
Spring. 3(0-9)
P: CEP 994B R: Doctoral Students Only
Education Counseling Psychology
Advanced training in the practice of counseling psychology, including client conceptualization, assessment, intervention design, ethical and professional development issues, supervision, and consultation.
QA: CEP 958B

995*. **Practicum in Research Design & Data Analysis**
Spring. 3(3-0)
P: CEP 933 R: Doctoral Students
Education
Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.
QP: CEP 904 CEP 905

999*. **Doctoral Dissertation**
Fall, Spring, Summer. 0(-)
R: Ph.D. Only

CRIMINAL JUSTICE CJ

110. **Introduction to Criminal Justice**
Fall, Spring, Summer. 3(3-0)
Description and analysis of agencies and processes involved in administration of justice in the United States.

210*. **Introduction to Scientific Evidence**
Spring. 4(4-0)
R: Priority to Forensic Science majors
Collection, preservation and scientific analysis of physical evidence. Legal aspects and expert testimony.
QA: CJ210

220*. **Criminology**
3(3-0) Interdepartmental with the Department(s) of Sociology.
P: CJ110 or Soc 100 R: Freshmen
CJ majors or approval of school
Introduction to the socio-legal foundation of crime. Analysis of crime typology and measurement procedures. Theory and public policy. Sources, nature, types of societal responses to crime and criminals.
QP: CJ 110 SOC 241 QA: CJ 320 SOC 320

292*. **Methods of Criminal Justice Research**
Fall, Spring. 4(4-0)
P: CJ 220. R: Not open to freshmen. Open only to students in the School of Criminal Justice.
Logic, design, analysis and ethical principles in criminal justice research. Indicators of crime and its control.
QP: CJ 320 SOC320OR QA: CJ 492

335*. **Police Process**
Fall, Spring. 3(3-0)
P: CJ 292 R: Juniors
CJ majors or approval of School
Roles, responsibilities, issues and trends pertinent to contemporary law enforcement organizations.
QP: CJ 492 QA: CJ 355

355*. **Juvenile Justice Process**
Fall, Spring. 3(3-0)
P: CJ 292. R: Open only to majors in the School of Criminal Justice or approval of school.
The juvenile justice system and law. Theories of juvenile delinquency and deviance. Sociological, psychological, and anthropological perspectives.
QP: CJ 492 QA: CJ 355

365*. **Corrections Process**
Fall, Spring. 3(3-0)
P: CJ 292. R: Open only to majors in the School of Criminal Justice or approval of school.
Historical and contemporary views of offender management and treatment. Corrections system operation. Effects of institutionalization. Alternatives to incarceration.
QP: CJ492 QA: CJ365

375*. **Criminal Law Process**
Fall, Spring. 4(4-0)
P: CJ 292. R: Open only to majors in the School of Criminal Justice or approval of school.
Administration of criminal law. Investigation, prosecution, adjudication, and sentencing. Constitutional safeguards and legal controls on official action.
QP: CJ 492 QA: CJ 375

385*. **Introduction to Private Security**
Fall. 3(3-0)
R: Not open to freshmen and sophomores.
Relationships of private protective services with public law enforcement. Individuals, businesses, and governments providing prevention, protection, investigation and disaster recovery services. Protection of persons, property, and information.
QA: CJ485

400H*. **Honors Study**
Fall, Spring, Summer. 1 to 3 credits.
May reenroll for a maximum of 6 credits.
R: Seniors Honors College or approval of school
Supervised group or individual study dealing with some phase of the criminal justice system.
QA: CJ400H

419*. **Forensic Science I**
Fall. 3(0-6)
P: CJ 210, CJ292, Cem 252, Cem.253, Phy. 232, Phy. 252 R: Seniors. Juniors with permission of instructor. Forensic science
Forensic science laboratory practice. Scientific instruments. Chain of custody. Scientific analysis of trace evidence and controlled substances.
QP: CJ 210 CJ 492CEM 243CEM 244CEM 245
QA: CJ312 CJ313

420*. **Forensic Science II**
Spring. 3(0-6)
P: CJ 419. R: Open only to seniors in Forensic Science or approval of school.
Scientific analysis of pattern evidence and evidence from human origin. Presentation of scientific evidence in court. Rules governing admissibility of scientific evidence. Case work and mock trials.
QP: CJ312 CJ313 QA: CJ314

421*. **Minorities, Crime and Social Policy**
Spring. 3(3-0)
P: CJ 110 R: Juniors
Minority representation in criminal justice system. Minority assessment of criminal justice response to minorities.
QP: CJ 110 QA: CJ 409

422*. **Comparative and Historical Criminal Justice**
Fall of odd-numbered years. 3(3-0)
P: CJ 110. R: Open only to majors in the School of Criminal Justice.
Comparative study of criminal justice systems. Theories, types, and effects of intervention.
QP: CJ 110 QA: CJ 822