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410. 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 semester to semester. The course may be repeated for credit.
Q: CPS 412 CPS 812 CPS 890 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
QA: CPS 914

414. Selected Topics in Artificial Intelligence
Fall. 3(3-0) May reenroll for a maximum of 9 credits.
P: CPS 814. R: Graduate Engineering Computer Science
Selected topics in the design of high performance computer systems. Discussed in seminar format; content varies each time offered.
QA: CPS 922

915. Selected Topics in High Performance Computer Systems
Spring. 3(3-0) May reenroll for a maximum of 9 credits.
P: CPS 822. R: Graduate Engineering Computer Science, Electrical Engineering
Selected topics in the design of high performance computer systems. Discusses in seminar format; content varies each time offered.
QA: CPS 925

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

420. Elementary Curriculum and Instruction for the Mentally Impaired
Fall. 2(2-0) P: CEP 460 C: CEP 480 CEP 467 CEP 467R: Juniors & Seniors Education Special Education Curriculum and instruction for elementary school-aged mentally impaired students.
QA: CEP 460 QA: CEP 480 QA: CEP 467R

499B. Secondary Curriculum and Instruction for the Mentally Impaired
Fall. 2(2-0) P: CEP 460 CEP 467C CEP 467K CEP 460 CEP 460R: Juniors and Seniors Education Special Education Curriculum and instruction for secondary school-aged mentally impaired students.
QA: CEP 460 QA: CEP 499C

441A. American Sign Language I
Fall, Spring, Summer. 3(3-0) P: CEP 341 R: Not open to freshmen and sophomores
Production, comprehension, and grammatical analysis of American Sign Language.
QA: CEP 465D CEP 465E

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
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Descriptions of Courses

Courses are subject to revision and final approval.

460J*. Academic Instruction of Mildly Impaired
Fall, Spring, 2(2-0)
P: CEP 460, CEP 465 R: Juniors and Seniors Education Special Education
Education practices and remedial strategies for teaching academic skills to mildly impaired students.
QM: Fall 460 J

460K*. Practicum: Special Education CORE
Fall, Spring, 3(0-12)
P: CEP 460, CEP 310, TE 312, TE 315
C: CEP 460, CEP 465 R: Juniors and Seniors Education Special Education
Supervised practicum in an educational program for mildly impaired learners.
QM: CEP 460, CEP 312, TE 315

466B*. Elementary Curriculum and Instruction for the Emotionally Impaired
Fall, Spring, 2(2-0)
P: CEP 460 C: CEP 466K, CEP 466C R: Juniors and Seniors Education Special Education
Curriculum and instruction for elementary school-aged emotionally impaired.
QM: CEP 466B

466C*. Secondary Curriculum and Instruction for the Emotionally Impaired
Fall, Spring, 3(3-0)
P: CEP 460 C: CEP 466K, CEP 466C R: Juniors and Seniors Education Special Education
Curriculum and instruction for secondary school-aged emotionally impaired students.
QM: CEP 466C

466K*. Practicum: Emotionally Impaired
Fall, Spring, 2(2-8)
P: CEP 460 C: CEP 466K
C: CEP 466B R: Juniors and Seniors Education Special Education
Practicum in elementary and secondary school programs for the emotionally impaired.
QM: CEP 466K

467K*. Practicum: Mentally Impaired
Fall, Spring, 2(2-8)
P: CEP 460 C: CEP 426 CEP 426 R: Juniors and Seniors Education Special Education
Practicum in an educational program for mentally impaired learners.
QM: CEP 467K

802*. Learning in School and Other Settings
Fall, Spring, Summer, 3(3-0)
P: 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.
QM: CEP 811

801*. Psychological Development: Learner Differences and Comumalities
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.
QM: CEP 812A

809*. Developing Positive Attitudes toward Learning
Fall, 3(3-0)
P: Masters and above
Implications of cognitive theory for transfer of learning and skills. Emphasis on knowledge representation, system development and product evaluation.
QM: CEP 834A

808*. Psychodynamics of Self-Concept Development and Self-Understanding
Fall, Spring, Summer, 3(3-0)
P: Masters and above
QM: CEP 851 A, CEP 851 B

805*. Learning Mathematics
Fall, 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 perspective of epistemological, mathematical, and epistemological perspectives. Implications for teaching.
QM: CEP 834 A

809*. Instructional Design I
Fall, Spring, 3(3-0)
P: Masters and above Education, R: Masters and above Education
Psychological and epistemological perspectives underlying various approaches to school education. Implications emerging from these perspectives.
QM: CEP 834 A

809*. Instructional Design II
Spring, 4(2-4)
P: Masters and above Education
Principles of instructional design and delivery applied to classroom education and industrial training. Needs analysis, design, development and evaluation. Educational technology, including use of computer, interactive video and hyper-media.
QM: CEP 834 A

810*. Teaching for Understanding with Computers
Fall, Spring, 3(3-0)
P: CEP 416 or CEP 100 R: Masters and above
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.
QM: CEP 834 A

811*. Advanced Educational Applications of Computers
Fall, Spring, 3(3-0)
P: CEP 810 R: Masters and above
Implications of cognitive theory for knowledge transfer and application in educational technology and multimedia. Emphasis on knowledge representation, system development and product evaluation.
QM: CEP 834 A

812*. Applying Instructional Technology for Clin
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.
QM: CEP 834 C, CEP 830

813*. Using Technology to Improve Student Problem Solving Skills
Spring, Summer, 3(3-0)
P: CEP 810
QM: CEP 834 A

814*. Teaching Subject Matter with Technology
Fall, Summer, 3(3-0)
Interdepartmental with the Department(s) of Teacher Education, R: Masters and above
Rationale for use of technology in teaching subject matter. Match between technology and subject matter. Models for teaching subject matter via technology.
QM: CEP 446 A, CEP 446 A

817*. Ability as Social Construction: Problems and Practices
Spring, 3(3-0)
Interdepartmental with the Department(s) of Teacher Education, R: Masters and above
QM: CEP 446 B, CEP 446 A

819*. Preseminar II: Psychological Bases of Literacy Instruction
Spring, 3(3-0)
R: Masters and above
M.A. literacy instruction program. Psychological foundations of literacy instruction, including models, theories, psychological processes, social and contextual factors, and text features.
QM: T 8123, T 819 C

819*. Preseminar II: Psychological Bases of Literacy Instruction
Spring, 3(3-0)
R: Masters and above
M.A. literacy instruction program. Psychological foundations of literacy instruction, including models, theories, psychological processes, social and contextual factors, and text features.
QM: T 8123, T 819 C

820*. Measurement and Evaluation for Counseling and Development
Fall, 3(3-0)
P: Masters and above
QM: CEP 834 A

822*. Approaches to Educational Inquiry
Fall, Spring, Summer, 3(3-0)
P: Masters and Doctoral Students
Rationale for empirical study in education. Emphasis on alternative approaches and uses of inquiry through case examples.
QM: CEP 834 C, CEP 834 A

824*. Classroom Assessment
Fall, Spring, Summer, 3(3-0)
Interdepartmental with the Department(s) of Teacher Education, R: Masters and above
QM: None
QM: CEP 440
Courses are subject to revision and final approval.

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846A. Evaluation of Educational Programs and Policies Spring, 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

840A. Introduction to Educating Deaf Children Fall. 4(3-1) P: CEP 441; CEP 442; CEP 442B; Admission to Deaf Education Masters Program R: Masters and above Education Special Education: Deaf Education Emphasis Political, social, methodological, historical, philosophical and legal issues in educating deaf children and youth. QP: CEP885K

841A. Educational Provisions for Deaf Children Fall. 3(3-0) P: CEP 441; CEP 442A; CEP 442B; Admission to Deaf Education Masters Program R: Masters and above Education Special Education: Deaf Education Emphasis Adaptation of educational methods, materials, and curriculum for deaf students. QP: CEP485A


845A. Educational Technology in Special Education Fall. 3(1-4) P: 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: CEP472A CEP472C QA: CEP472E

846A. Formal and Informal Assessment in Special Education Spring, 3-0) 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: CEP688ACEP895B QA: CEP685F

847A. Evaluation and Remediation for Elementary Mildly Impaired Students Fall, 3(3-0) P: CEP 240, CEP 846 C: CEP 833D 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: CEP869B QA: CEP685F

847B. Evaluation and Remediation for Secondary Mildly Impaired Students Fall. 3(3-0) P: CEP 240, CEP 846 C: CEP 833D 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 selection, development, evaluation, and modification of reading and writing programs. QP: CEP869B QA: CEP885F

848A. Diagnosis and Remediation of Math Problems: Elementary Spring, 3(3-0) P: CEP 240 & CEP 846 C: CEP 833D 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: CEP646 QA: CEP685G

848B. Diagnosis and Remediation of Math Problems: Secondary Spring, 3(3-0) P: CEP 240, CEP 846 C: CEP 833D R: Masters and above Education Special Education Techniques and instruments for identifying and remediating learning problems in the content areas at the secondary level. QP: CEP646 QA: CEP685G

849A. Behavior Management: Consultation and Practice Spring. 3(3-0) P: CEP 240 R: Masters and above Education Special Education Behavior management practice, including applied behavior analysis, social skills acquisition through cooperative learning and cooperative discipline. Consultation skills focusing on problem-solving and peer collaboration. QP: CEP699J

850A. Models of Special Education Consultancy in Spring, 3(3-0) P: CEP 240 R: Masters 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: CEP646 QA: CEP685D

851A. Models of Special Education Administration and Services Spring, 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 administration and implementation. QP: CEP646 QA: CEP676D CEP686D

853A. Social Studies Fall, 3(3-0) R: Seniors and above Analysis of social studies courses with an emphasis on Federal regulations, guidelines and court decisions related to special education and examination of their impact. QP: CEP876C

854A. Blinds Children in Elementary Education Fall, 5(2-5) 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. QP: CEP472B CEP472E

854B. Clinical Teaching: Blind Children in Elementary Education Spring, 1 to 10 credits. May enroll for a maximum of 10 credits. P: CEP443A, CEP463B, 854A R: Masters and above Supervised student teaching in elementary education programs for blind and visually impaired children. QP: CEP472D

855A. Education of Blind Youth in Secondary Education Spring, 3(1-4) R: Masters and above Life adjustment and community education curriculum. Enabling teens with visual impairments to succeed in a successful transition from school to work. QP: CEP472D

856A. Education of Deaf/Blind Children and Youth Fall, 4(3-2) R: Masters and above Assessing and teaching deaf-blind and visually impaired students in sensory skills, behavior management and modification, language, communication and independent living. QP: CEP471A CEP471D

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. QP: CEP472G

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. QP: CEP472I

857C. Advanced Techniques of Orientation and Mobility Spring, 5(1-4) R: Masters and above Priority to Majors in Teaching Blind Children and 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. QP: CEP472J
893F*. Special Education Internship
  In Teaching: Elementary
Fall, Spring. 4 to 9 credits. May
renew for a maximum of 9 credits.
P: CEP 846 B: Masters and above Educa-
tional Special Education: Mildly Impaired
Secondary Emphasis
Supervised experience with mildly impaired, learning
disabled students in elementary schools or clinical
settings.
QP: CEP 8460 QA: CEP 869K

893Q*. Special Education Internship
  In Teaching: Secondary
Fall, Spring. 1 to 9 credits. May
renew for a maximum of 9 credits.
P: CEP 846 B: Masters and above Educa-
tional Special Education: Mildly Impaired
Secondary Emphasis
Supervised experience with mildly impaired, learning
disabled students in secondary schools or clinical
settings.
QP: CEP 8460 QA: CEP 869K

894A*. Rehabilitation Counseling
  Practicum
Fall, Spring. 6(3-12)
P: CEP 882 R: Masters Education Reha-
bilitation Counseling Majors Only
Supervised practice in a rehabilitation or human
services setting.
QP: CEP 802A CEP 802B CEP 840A

894C*. Counseling Practicum
  Fall, Spring. 4(3-3)
P: CEP 863 R: Masters and above Educa-
tion 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 840D CEP 840E QA: CEP 840F

894E*. Practicum in Educational
  Psychology
Fall, Spring, Summer. 1 to 3 credits.
May renew for a maximum of 6 credits.
R: Masters and above
Practicum for students working in field sites.

894F*. Practicum in Orientation and
  Mobility
Spring. 1 to 10 credits. May
renew for a maximum of 10 credits.
P: CEP 857 C: R: Masters and above
Student teaching of independent travel to visually
impaired and blind students in elementary and sec-
dondary education.
QA: CEP 472K CEP 473K

899*. Master's Thesis Research
  Fall, Spring, Summer. 0-6

900*. Cultural Perspectives on Learning
  and Development
Spring of even-numbered years. 3(3-0)
P: CEP Learning in School & Other...
CEP Rec. Div. of Learners DH: R: Masters and above
Theories and research in cultural psychology. Exam-
ines nature and development of cultural influences
on learning and schooling. Implications for education-
al 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. Psy-
chological 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 learn-
ing and teaching of school subjects, including mathe-
matics, science, and reading. Psychological analyses
of learning contexts in and out of school, transfer, and
representation of knowledge.
QP: 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
teoretical perspectives. Relationship between cogni-
tive 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 810 ORCEP 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: CEP 812ACEP 811

906*. Socio-cultural 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 media-
tion of human cognition. Emphasis on the formative
role of cultural 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 analysis of teachers and teaching.
Decision-making. Learning from experience. Develop-
mental changes.
QP: CEP 911A

908*. Instructional Theories
  Spring of even-numbered years. 3(3-0)
P: CEP 808, CEP 898 R: Masters and above
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 CEP 583ACEP 583B QA: CEP 811

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. Com-
puter as metaphor for mind. Representation sys-
tems.

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 founda-
tions 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 Educa-
tion
Psychological theory and research on the learning of
mathematics. School mathematics content. Develop-
ment 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. Relationships between
oral and literate discourse and the sociocultural
nature of educational contexts.
QA: CEP 911

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 popula-
tions.
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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
Principles of educational assessment including test-making and standardized techniques. Grading, policy issues, effective and performance measurement.

921*. Psychometric Theory I
Spring. 3(3-0)
P: CEP 900; CEP 920 or CEP 921 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 923 R: Graduate Students Only 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 921 or CEP 924 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 in education in.
R: Graduate Students
Alternative approaches to educational inquiry: Quantitative, integrative, 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
Multivariate methods, matrix algebra, and the general linear model. QP: CEP 908 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
Application of discrete and continuous multivariate methods in educational research. QP: CEP 909 QA: CEP 942

936*. Synthesis of Educational Research
Spring of odd-numbered years. 4(4-0)
P: CEP 933 R: Doctoral Students 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
Current issues in educational measurement. QP: CEP 906A QA: CEP 900B

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. QP: CEP 975

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. QP: CEP 911

942*. Issues in Special Education for Low-Income 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: CEP 960

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

945*. 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 education Counseling 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. QP: CEP 984A

961*. Multicultural Perspectives in Counseling Psychology
Fall. 3(3-0)
R: Doctoral Students Education, Social Science and Human Ecology Counseling Psych, Clinical & Marriage & Fam Therapy
Cultural, gender and disability dynamics as they affect human functioning and counseling psychology practices. QP: CEP 957

962*. Psychology of Career Development
Spring. 3(3-0)
R: CEP 864 R: Doctoral
Theories of career choice and development with emphasis on psychological processes underlying vocational behavior. QP: CEP 960C 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. QP: CEP 953

965*. Psychological Assessment
Fall. 3(3-0)
R: CEP 960 C: CEP 994A R: Doctoral Students Education Counseling Psychology
Psychological diagnostic categories including etiology, prevalence, predisposing factors and differential diagnosis. Introduction to objective measures for psychological assessment. QP: CEP 948A QA: CEP 902A CEP 954 CEP 924

966*. Psychological Diagnosis and Assessment I
Spring. 3(3-0)
R: CEP 965 C: CEP 994B R: Doctoral Students Education Counseling Psychology
Advanced diagnostic and assessment skills and instruments required for counseling psychologists.
QP: CEP 992B CEP 954 CEP 925A

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.
CJ 485

968*. Research in Counseling Psychology
Fall, 3(0-0)
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 956 QA: CEP 952

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

992A*. Literacy Learning for At-Risk and Special Education Students
Fall, Spring, Summer, 3(0-0)
P: Graduate Education
Current issues in learning and literacy. Factors that mediate the literacy learning of at-risk and special education students.

999*. Readings and Independent Study in CEP
Fall, Spring, Summer, 1 to 6 credits.
May renew 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.

999A*. Special Topics in Educational Psychology
Fall, Spring, Summer, 1 to 6 credits.
May renew for a maximum of 9 credits.
R: Open only to Doctoral students
Problems, topics and issues in educational psychology.

991B*. Special Topics in Educational Statistics and Research Design
Spring, 3(0-0)
P: CEP 923 R: Doctoral Students
Problems, topics and issues in educational statistics and research design.
QP: CEP 906

994A*. Counseling Psychology Practicum I
Fall, 3(0-0)
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 954A QA: CEP 954B

994D*. Counseling Psychology Practicum II
Spring, 3(0-0)
P: CEP 964 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.
QP: CEP 956C

994C*. Advanced Practicum in Counseling Psychology
Spring, 3(0-0)
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.
QP: CEP 958B

995*. Practicum in Research Design & Data Analysis
Spring, 3(0-0)
P: CEP 933 R: Doctoral Students Education
Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.
QP: CEP 956 CEP 905

999R*. Doctoral Dissertation
Fall, Spring, Summer, 9(0-0)
R: Ph.D. Only

CRIMINAL JUSTICE

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

CJ 210. Introduction to Scientific Evidence
Spring, 4(0-0)
R: Priority to Forensic Science majors
Collection, preservation and scientific analysis of physical evidence. Legal aspects and expert testimony.
QP: CEP 921

CJ 220. Criminology
Fall, Spring, 3(3-0)
Introduction to the theory of criminal justice. Analysis of crime types, social control measures, and public policy. Focus on nature, types of societal responses to crime and criminals.
QP: CEP 110 SOC 241 QA: CEP 110 SOC 220

CJ 230. Methods of Criminal Justice
Research
Fall, Spring, 4(4-0)
R: Not open to freshmen. Open only to Ph.D. students.
QP: CEP 110 SOC 2300R QA: CEP 420

CJ 320. Police Process
Fall, Spring, 3(3-0)
P: CEP 210 R: Open only to majors in the School of Criminal Justice.
QP: CEP 420 QA: CEP 335

CJ 335. Juvenile Justice Process
Fall, Spring, 3(3-0)
P: CEP 210 R: Open only to majors in the School of Criminal Justice or approval of school
QP: CEP 420 QA: CEP 335

CJ 370. Corrections Process
Fall, Spring, 3(0-0)
P: CEP 210 R: Open only to majors in the School of Criminal Justice or approval of school
QP: CEP 420 QA: CEP 335

CJ 385. Criminal Law Process
Fall, Spring, 4(4-0)
P: CEP 210 R: Open only to majors in the School of Criminal Justice or approval of school
QP: CEP 420 QA: CEP 335

CJ 400A. Forensic Science I
Fall, Spring, 3(3-0)
R: Not open to freshmen.
QP: CEP 420 QA: CEP 335

CJ 401. Forensic Science II
Spring, 3(3-0)
R: Not open to freshmen.
QP: CEP 420 QA: CEP 335

CJ 418. Forensic Science
Fall, Spring, 3(3-0)
P: CEP 420
QP: CEP 420 QA: CEP 335

CJ 431. Minorities, Crime and Social Policy
Fall, Spring, 3(3-0)
P: CEP 110 R: Open only to majors in the School of Criminal Justice.
QP: CEP 431 QA: CEP 335

CJ 442. Comparative and Historical Criminal Justice
Fall, Spring, 3(3-0)
P: CEP 110 R: Open only to majors in the School of Criminal Justice.
QP: CEP 442 QA: CEP 335

Courses with an asterisk (*) have not been approved by the University Committee on Curriculum.