895 Artificial Neural Networks
Fall. 3(3-0) Interdepartmental with Electrical and Computer Engineering. Administered by Department of Electrical and Computer Engineering. SA: CPS 895

890 Independent Study
Fall. Spring. Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Computer Science or Electrical Engineering majors. Approval of department. SA: CPS 890
Independent study of some topic, system, or language not covered in a regular course.

891 Selected Topics
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to Computer Science or Electrical Engineering majors. SA: CPS 891
Selected topics in computer science of current interest and importance but not covered in a regular course.

898 Master's Project
Fall, Spring. Summer. 1 to 4 credits. A student may earn a maximum of 12 credits in all enrollments for this course. R: Open only to Computer Science majors. Approval of department. SA: CPS 898
Master's degree Plan B individual student project: original research, research replication, or survey and reporting on a topic such as system design and development, or system conversion or installation.

899 Master's Thesis Research
Fall, Spring. Summer. 1 to 8 credits. A student may earn a maximum of 24 credits in all enrollments for this course. R: Open only to Computer Science majors. Approval of department. SA: CPS 899
Master's thesis research.

902 Selected Topics in Recognition by Machine
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CSE 802 and CSE 803) R: Open only to Computer Science or Electrical Engineering majors. SA: CPS 902
Advanced topics in pattern recognition and computer vision such as Markov random fields, modeling and recognition of three dimensional objects, and integration of visual modules.

910 Selected Topics in Computer Networks and Distributed Systems
Spring of even years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CSE 422 and CSE 812) R: Open only to Computer Science or Electrical Engineering majors. SA: CPS 910
Advanced topics and developments in high-bandwidth computer networks, protocol engineering, and distributed computer systems.

914 Formal Methods in Software Development
Fall. 3(3-0) P:M: (CSE 814) RB: Undergraduate courses in software engineering and in logic. R: Open only to students in the Department of Computer Science and Engineering. SA: CPS 914
Current research in selected areas of software engineering such as: approaches for the incorporation of formal methods in software development; current projects using formal methods in software engineering; object-oriented analysis and development techniques; and approaches for the incorporation of user-interface analysis and design in software development.

920 Selected Topics in High Performance Computer Systems
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P:M: (CSE 822) R: Open only to Computer Science and Engineering majors or approval of Department. SA: CPS 920
Design of high performance computer systems. Seminar format.

921 Advanced Topics in Digital Circuits and Systems
Fall, Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with Electrical and Computer Engineering. Administered by Department of Electrical and Computer Engineering. SA: EE 921
Topics vary each semester.

921A Testable and Fault-tolerant Digital Systems
Fall of odd years. Spring of odd years. 3(3-0) Interdepartmental with Electrical and Computer Engineering. Administered by Department of Electrical and Computer Engineering. RB: (ECE 809 and ECE 813) SA: EE 921A

921B Embedded Architectures
Fall of odd years. Spring of odd years. 3(3-0) Interdepartmental with Electrical and Computer Engineering. Administered by Department of Electrical and Computer Engineering. RB: (ECE 809 and ECE 813) SA: EE 921B

921C Electronic Systems Packaging
Fall of odd years. Spring of odd years. 3(3-0) Interdepartmental with Electrical and Computer Engineering. Administered by Department of Electrical and Computer Engineering. RB: A basic background in electronics and electromagnetics. VLSI packaging technology, thermal management, electrical design, switching noise, multi-chip packaging, materials, device assembly, RF device packaging, and electrical testing.

941 Selected Topics in Artificial Intelligence
Fall. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CSE 841) R: Open only to Computer Science or Electrical Engineering majors. SA: CPS 941
Topic such as second generation expert systems, human factors, natural language processing, speech understanding, neural networks, genetic algorithms and opportunistic planning.

960 Selected Topics in Algorithms and Complexity
Spring of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CSE 830 and CSE 860) R: Open only to graduate students in the Department of Computer Science and Engineering. Approval of department. SA: CPS 960
Current research in the general theory of algorithms and computational complexity.

980 Selected Topics in Database Systems
Spring. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CSE 880) R: Open only to Computer Science or Electrical Engineering majors. SA: CPS 980
Recent developments in areas such as distributed and parallel database systems, object oriented database systems, knowledgebase and expert database systems.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to Computer Science majors. Approval of department. SA: CPS 999
Doctoral dissertation research.

COUNSELING, CEP
EDUCATIONAL PSYCHOLOGY AND SPECIAL EDUCATION

Department of Counseling, Educational Psychology and Special Education
College of Education

150 Reflections on Learning
Fall, Spring. Summer. 3(3-0) Interdepartmental with Teacher Education. Administered by Department of Teacher Education. Students' experiences as learners in comparison to psychological, sociological, and anthropological theories and assumptions about learning and teaching in and out of school.

240 Diverse Learners in Multicultural Perspective
Fall, Spring. Summer. 3(2-2) Interdepartmental with Teacher Education. 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.
Counseling Educational Psychology and Special Education—CEP

260 Dynamics of Personal Adjustment
Fall, Spring, Summer. 3(3-0) Psychological theories of human adjustment. Implications for effective learning, self-development, and adaptation.

261 Substance Abuse
Fall, Spring. 3(3-0) Effects of mood-altering chemicals. Treatment approaches and resources. Special emphasis on adolescent users.

301 Introduction to Students With Mild Impairments (W)
Spring. 3(2-2) P: Completion of Tier I writing requirement. R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities. Learning and emotional impairments. Characteristics, causes, educational approaches, theories, and issues pertaining to students with mild impairments.

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.

416 Teaching and Learning With Technology
Fall, Spring, Summer. 3(3-0) R: Open only to juniors or seniors or graduate students in the College of Education. Uses of technology in teaching and learning. Major emphasis on developing plans for implementing and evaluating uses of technology in the classroom setting.

440 Introduction to Educating Deaf Children (W)
Fall. 3(2-2) P: Completion of Tier I writing requirement. RB: (CEP 442B) R: Open only to students admitted to the teacher certification program in deaf education or to master's students in the special education major. SA: CEP 840 Political, social, methodological, historical, philosophical, and legal issues in educating deaf children and youth.

441A American Sign Language I
Fall, Spring. 3(3-0) P: (CEP 341) R: Open only to freshmen. Production, conversation, and grammatical analysis of American Sign Language.

441B American Sign Language II
Fall, Spring. 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.

442A American Sign Language III
Fall. 3(3-0) P: (CEP 441B) Use of space for multiple-person discourse. Formal register. Colloquial and idiomatic language. Applications to teaching in American Sign Language.

442B American Sign Language IV
Spring. 3(3-0) P: (CEP 442A) Use of space for creative interpretation of literature, science, mathematics, socio-historical concepts. Formal register. Colloquial and idiomatic language.

443A Braille Literacy I
Fall. 3(1-4) R: Open only to undergraduate students in the Special Education major whose area of emphasis is visual impairment or to master's students in the Special Education major. Reading and writing standard English Braille Grade II. Familiarity with textbook formats. History and development of Braille. Perkins Braillewriter and slate and stylus.

443B Braille Literacy II
Spring. 4(1-6) P: (CEP 443A) R: Open only to undergraduate students in the Special Education major whose area of emphasis is visual impairment or to master's students in the Special Education major. Accuracy in reading and writing Nemeth Braille Code for mathematics and science, use of abacuses for basic math operations.

444 Education of Students with Severe and Multiple Disabilities (W)
Spring. 3(3-0) P: Completion of Tier I writing requirement. R: Not open to freshmen or sophomores. Definition of severe and multiple disability. Special education services for students with severe and multiple disabilities.

445 Educational Technology in Special Education
Spring. 3(1-4) RB: (CEP 443A or concurrently) R: Open only to seniors in the Special Education major. SA: CEP 845 Technological adaptations for communication, including low technology and high technology, and innovative uses for common devices.

449 Behavior Management in Special Education
Spring. 3(3-0) SA: CEP 849 Management practices for behavior problems and disorders. Applied behavior analysis, social skills acquisition through cooperative learning and collaborative focus on problem-solving and peer collaboration.

451 Models of Special Education
Spring. 3(2-2) Interdepartmental with Educational Administration. R: Open only to students admitted to the teacher certification program in special education or to master's students in the Special Education major. Application of theory and research to special education program design and implementation.

452 Students With Disabilities in the Regular Classroom
Fall, Summer. 3(3-0) SA: CEP 852 Problems and issues in educating children with disabilities in the least restrictive environment. Legal, attitudinal, and practical factors which influence teachers and students.

456A Deaf-Blind Children and Youth in Elementary and Secondary Education
Fall. 4(3-2) RB: (CEP 441A or concurrently and CEP 443A or concurrently) R: Open only to students admitted to the teacher certification program in deaf education or visual impairment or to master's students in the Special Education major. SA: CEP 856A Assessing and teaching deaf-blind students. Sensory skills, behavior management and modification, language, communication and independent living.

457 Principles of Orientation and Mobility
Fall. 3(2-3) R: Open only to students admitted to the teacher certification program in visual impairment or to master's students in the Special Education major. SA: CEP 857A Philosophical, social, and psychological aspects of independent mobility for persons who are blind and disabled. Environmental awareness and concept development in using adaptive travel techniques for navigation.

460 Communication Skill Training for the Helping Professional
Fall, Spring. 3(3-0) R: Not open to freshmen or sophomores. Interpersonal communication focusing on dynamics of listening process, interpersonal style, and barriers to communication. Emphasis on the mastery of microskills.

470 Disability in a Diverse Society
Spring. 3(3-0) R: Open only to juniors or seniors or graduate students. Needs and life experiences of persons with various physical and mental disabilities, types of services designed to meet these needs, multicultural issues relevant to disabilities, and career opportunities available in the field.

480 Practicum Experience with Deaf Students
Spring. 1(0-5) P: (CEP 440) Field placement experience in a self-contained classroom of deaf and hard-of-hearing students.

502A Internship in Teaching Diverse Learners II: Learning Disabilities
Spring. 6(2-24) RB: (CEP 801A and CEP 802A and TE 501) R: Open only to students admitted to the teacher certification program in learning disabilities or to master's students in the Special Education major. Not open to students with credit in CEP 502B or CEP 502C or CEP 502D or CEP 893F. C: CEP 803C concurrently and CEP 804C concurrently. Internship in heterogeneous classrooms. Increased emphasis on independent teaching. Teaching students with learning disabilities in classroom communities that ensure equitable access to important knowledge and skills. Assessing academic and social outcomes.
### CEP—Counseling Educational Psychology and Special Education

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>502B</td>
<td>Internship in Teaching Diverse Learners II: Emotional Impairment</td>
<td>Spring. 6(2-24) RB: (CEP 801A and CEP 802A and TE 501) R: Open only to students admitted to the teacher certification program in emotional impairment or to master's students in the Special Education major. Not open to students with credit in CEP 502A or CEP 502C or CEP 502D or CEP 893F. C: CEP 803A concurrently and CEP 804A concurrently. Internship in heterogeneous classrooms. Increased emphasis on independent teaching. Teaching students who are emotionally impaired in classroom communities that ensure equitable access to important knowledge and skills. Assessing academic and social outcomes.</td>
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<tr>
<td>801A</td>
<td>Professional Role in Teaching Special Education I: Collaboration and Consultation</td>
<td>Fall. 3(2-3) RB: (TE 401) R: Open only to students admitted to the teacher certification program in special education or to master's students in the Special Education major. C: (CEP 802A concurrently or CEP 802C concurrently) and (TE 501 concurrently). Professional and ethical responsibilities. Models and methods of collaboration with teachers, parents, and community agencies to foster learning for students with impairments. Advocacy for students with impairments in school and community settings.</td>
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<tr>
<td>502C</td>
<td>Internship in Teaching Diverse Learners II: Deaf Education</td>
<td>Spring. 6(2-24) RB: (CEP 801A and CEP 802C and TE 501) R: Open only to students admitted to the teacher certification program in deaf education or to master's students in the Special Education major. Not open to students with credit in CEP 502A or CEP 502B or CEP 502D or CEP 893F. C: CEP 803C concurrently and CEP 804C concurrently. Internship in heterogeneous classrooms. Increased emphasis on independent teaching. Teaching students who are deaf or hard of hearing in classroom communities that ensure equitable access to important knowledge and skills. Assessing academic, communication, and social outcomes.</td>
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<tr>
<td>802</td>
<td>Developing Positive Attitudes toward Learning</td>
<td>Fall. 3(3-0) RB: (CEP 800) Behavioral, individual-difference, and cognitive perspectives on student motivation to learn.</td>
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<tr>
<td>502D</td>
<td>Internship in Teaching Diverse Learners II: Visual Impairment</td>
<td>Spring. 6(2-24) RB: (CEP 801A and CEP 802D and TE 501) R: Open only to students admitted to the teacher certification program in visual impairment or to master's students in the Special Education major. Not open to students with credit in CEP 502A or CEP 502B or CEP 502D or CEP 893F. C: CEP 803C concurrently and CEP 804D concurrently. Internship in heterogeneous classrooms. Increased emphasis on independent teaching. Teaching students who are blind or visually impaired in classroom communities that ensure equitable access to important knowledge and skills. Assessing academic, daily living, and social outcomes.</td>
</tr>
<tr>
<td>802A</td>
<td>Reflection and Inquiry in Teaching Special Education I: Mild Impairment</td>
<td>Fall. 3(2-3) RB: (CEP 301) R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities or M.A. students in the Special Education major or Ed.S. or Ph.D. students in the School Psychology major. Not open to students with credit in CEP 802C or CEP 802D. C: TE 501 concurrently and CEP 804A concurrently. Qualitative and quantitative research methods on teaching and learning of students with emotional or learning impairments. Framing educational problems in special education. Designing and assessing studies of mathematics and problem-solving.</td>
</tr>
<tr>
<td>802C</td>
<td>Reflection and Inquiry in Teaching Special Education I: Deaf Education</td>
<td>Fall. 3(2-3) R: Open only to students admitted to the teacher certification program in deaf education or to master's students in the Special Education major. Not open to students with credit in CEP 802A or CEP 802D. C: CEP 801A concurrently and TE 501 concurrently. Qualitative and quantitative research methods on teaching and learning of deaf students. Framing education problems in special education. Designing and assessing studies of language development for students who are deaf or hard of hearing.</td>
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<tr>
<td>803A</td>
<td>Professional Role in Teaching Special Education II: Assessment of Mild Impairment</td>
<td>Spring. 3(2-3) RB: (CEP 801A and CEP 802A and TE 501) R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities or M.A. students in the Special Education major or Ed.S. or Ph.D. students in the School Psychology major. Not open to students with credit in CEP 803C or CEP 803D. C: (CEP 502A concurrently or CEP 502B concurrently) and (CEP 804A concurrently). School-agency alliances for fostering student learning. Informal and formal assessment methods for planning and evaluating instruction and for classifying and placing students who are mildly impaired. Engage with families to improve responsiveness to the assessment.</td>
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<tr>
<td>803B</td>
<td>Internship in Teaching Diverse Learners II: Mild Impairment</td>
<td>Spring. 6(2-24) RB: (CEP 801A and CEP 802B and TE 501) R: Open only to students admitted to the teacher certification program in deaf education or to master's students in the Special Education major. Not open to students with credit in CEP 802A or CEP 802D or CEP 893F. C: CEP 803C concurrently and CEP 804C concurrently. Internship in heterogeneous classrooms. Increased emphasis on independent teaching. Teaching students who are emotionally impaired in classroom communities that ensure equitable access to important knowledge and skills. Assessing academic and social outcomes.</td>
</tr>
<tr>
<td>803C</td>
<td>Professional Role in Teaching Special Education II: Assessment of Deaf Students</td>
<td>Spring. 3(2-3) RB: (CEP 801A and CEP 802C and TE 501) R: Open only to students admitted to the teacher certification program in deaf education or to master's students in the Special Education major. Not open to students with credit in CEP 803A or CEP 803D. C: CEP 502C concurrently and CEP 804C concurrently. School-agency alliances for fostering student learning. Informal and formal assessment methods for diagnosing communication functions. Engage with families to improve responsiveness to the assessment of communication skills.</td>
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<tr>
<td>803D</td>
<td>Professional Role in Teaching Special Education II: Visual Impairment</td>
<td>Spring. 3(2-3) RB: (CEP 801A and CEP 802D and TE 501) R: Open only to students admitted to the teacher certification program in visual impairment or to master's students in the Special Education major. Not open to students with credit in CEP 803A or CEP 803C. C: CEP 502D concurrently and CEP 804D concurrently. School-agency alliances for fostering student learning. Informal and formal assessment methods for expected outcomes for students who are blind. Engage with families to improve responsiveness to the assessment of expected outcomes.</td>
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<tr>
<td>804A</td>
<td>Reflection and Inquiry in Teaching Special Education II: Mild Impairment</td>
<td>Spring. 3(2-3) RB: (CEP 801A and CEP 802A and TE 501) R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities or M.A. students in the Special Education major. Not open to students with credit in CEP 800D or CEP 804D. C: CEP 502A concurrently or CEP 502B concurrently. CEP 803A concurrently. Collecting, analyzing and interpreting data related to the teaching and learning of literacy for students with learning or emotional impairments. Appraising and reporting results of inquiry. Developing and studying learning communities which facilitate learning for mildly impaired students.</td>
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</table>
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804C Reflection and Inquiry in Teaching Special Education II: Deaf Education
Fall, Spring. 3(2-3) RB: (CEP 801A and CEP 802C and TE 501) R: Open only to students admitted to the teacher certification program in deaf education or to master's students in the Special Education major. Not open to students with credit in CEP 804A or CEP 804D. C: CEP 502C concurrently, CEP 803C concurrently. Collecting, analyzing and interpreting data related to teaching, learning and educational policy. Appraising and reporting results of inquiry. Designing and assessing studies of teaching practice in academic subject learning related to students who are deaf or hard of hearing.

804D Reflection and Inquiry in Teaching Special Education II: Visual Impairment
Spring. 3(2-3) RB: (CEP 801A and CEP 802D and TE 501) R: Open only to students admitted to the teacher certification program in visual impairment or to master's students in the Special Education major. Not open to students with credit in CEP 804A or CEP 804C. C: CEP 502D concurrently and CEP 803D concurrently. Collecting, analyzing and interpreting data on teaching, learning and educational policy. Appraising and reporting results of inquiry. Designing and assessing teaching and learning of Braille mathematics for students who are blind. Facilitating use of low vision.

805 Learning Mathematics with Technology
Fall. 3(3-0) Interdepartmental with Teacher Education.

806 Learning Science with Technology
Spring. 3(3-0) Interdepartmental with Teacher Education.
Possibilities, ideas, and issues associated with teaching science with technology. How K-12 teachers use Internet resources (e.g., simulations, data-bases, communities) to facilitate science learning. Contemporary conceptual perspectives from educational psychology on important issues of learning.

807 Proseminar in Educational Technology
Fall, Summer. 3(3-0) R: Open only to master's students in the Teaching and Learning with Technology major or approval of department. Perspectives on educational technology, current theories, research findings, and methods of design and evaluation.

808 Instructional Design
Fall. 3(3-0)
Theories, historical perspectives and application of instructional design principles to design of courses, learning modules, and on-line learning environments. Relationship of instructional design to constructivist approaches to learning.

810 Teaching for Understanding with Computers
Fall, Spring, Summer. 3(3-0)
Integration of productivity tools and web-based resources in school settings to improve teaching and learning.

811 Adapting Innovative Technologies to Education
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Application of instructional principles and methods to educational problems in the K-12 classroom. Development of technological applications which are interactive, multisensory, and innovative.

812 Applying Educational Technology to Problems of Practice
Fall, Spring, Summer. 3(3-0)
Applications of technology in K-12 settings. Define, implement, and evaluate technology-based solutions to educational problems in school settings.

813 Electronic Portfolios for Teaching and Learning
Fall, Spring. 3(3-0)
Web-based professional teaching and student portfolios. Authentic assessment, evaluation rubrics, alternative assessment. Portfolios for teaching writing, science, social studies, and art.

814 Emotional and Social Development of School-Age Youth
Fall, Spring, Summer. 3(3-0)
Research on emotional and social development from birth through adolescence. Personality development. Implications for teaching and learning.

816 Technology, Teaching and Learning Across the Curriculum
Spring. 3(3-0)
Uses of technologies in teaching subject matter. Disciplinary perspectives on teaching and learning with technology.

817 Learning Technology through Design
Fall, Spring. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. Design of educational tools and software. Designing for learners. Human computer interaction. Art and aesthetics of design. Iterative design. Collaboration in design.

821 Measurement and Evaluation for Counseling and Development
Fall, Spring. 3(3-0)
Assessment of intelligence, aptitude, achievement, interests, career development, work and personal values, and personality.

822 Approaches to Educational Research
Fall, Spring, Summer. 3(3-0)
Alternative methods of educational research. Identifying researchable problems in education and developing a research proposal. Applications of descriptive and inferential statistics for analyzing and critiquing published studies.

826 Evaluation of Educational Programs and Policies
Spring. 3(3-0) Interdepartmental with Teacher Education. RB: (CEP 822) Qualitative and quantitative methods to assess the effectiveness of public policies and resulting educational programs. Theory and practice of program evaluation.

827 Classroom, School and Community Programs for Students with Emotional Impairments
Fall. 3(3-0) P:M: (CEP 885 or concurrently) R: Open only to master’s students in the Special Education Emotional Impairment area of emphasis. Organizing and managing classrooms and community-based school management programs for students with emotional impairments and/or behavioral disorders. Creating positive classroom and school climates.

828 Behavior Analysis and Intervention for Students with Emotional Impairments
Spring. 3(3-0) P:M: (CEP 827) R: Open only to master’s students in the Special Education Emotional Impairment area of emphasis. Knowledge and understanding of behavioral assessment and intervention strategies. Resources for identifying and successfully intervening with problematic behavior. Measurement of behavior in naturalistic environments.

829 Seminar in Emotional Impairments: Academic and Social Issues
Fall. 3(3-0) R: Open only to master's students in the Special Education Emotional Impairment area of emphasis. Aligning cognitive and social goals in the design, implementation, and evaluation of academic curricula for students with emotional impairments. Psychological, social, and contextual factors related to instruction.

832 Educating Students with Challenging Behavior
Fall. 3(3-0) RB: Teaching certificate R: Open only to graduate students in the College of Education. Evidence-based classroom interventions for students with disruptive and other behavior problems within general education. Effective teaching approaches for students with challenging behavior.

838 Psychosocial Development in Deaf and Hard-of-Hearing Individuals
Spring of even years. 3(3-0) P:M: (CEP 442B and CEP 804C) RB: Teaching endorsement in Deaf Education. Psychological and social forces that shape the lives of Deaf and Hard-of-Hearing individuals in the school, home, workplace, and community environments.

840 Teaching Exceptional Children and Youth in General Education
Fall. 3(3-0)
Characteristics of students with disabilities and special needs. Implications for legal and professional responsibilities of general education teachers. Effective instructional strategies to support these students in K-12 classrooms.

841 Classroom and Behavior Management in the Inclusive Classroom
Summer. 3(3-0)
Identification of behavioral, social and academic characteristics of children with special needs. Principles and techniques for classroom and behavioral management in the inclusive classroom: designing school-wide, classroom-based and individual interventions.
842 Methods of Instruction in Inclusive Classrooms
Fall. 3(3-0) P:M: (CEP 840).
Principles for creating inclusive classrooms that support learning for all students. Instructional practices for providing differentiated instruction and making adaptations and accommodations. Evaluating student progress and program efficacy.

847 Advanced Studies in Deaf Education
Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. P:M: (CEP 442B and CEP 804C) RB: Teaching endorsement in Deaf Education.
Research topics relating to the education of Deaf and Hard-of-Hearing students.

848 Issues in the Instructional Use of Sign Language
Spring of odd years. 3(3-0) P:M: (CEP 442B and CEP 804C) RB: Teaching endorsement in Deaf Education.
Instructional applications of American Sign Language and other forms of signed communication in the education of Deaf and Hard-of-Hearing students.

854B Special Education Internship: Teaching Children and Youth with Visual Impairments
Fall, Spring. 1 to 15 credits. A student may earn a maximum of 15 credits in all enrollments for this course. RB: (CEP 802D and CEP 803D and CEP 804D and CEP 443B) R: Open only to graduate students in the Special Education major. C: CEP 847B concurrently and CEP 848B concurrently.
Supervised student teaching in elementary and secondary education programs for blind and visually impaired children.

856B Special Education Internship: Teaching Deaf-Blind Children and Youth
Fall, Spring. 1 to 15 credits. A student may earn a maximum of 15 credits in all enrollments for this course. RB: (CEP 456B) R: Open only to graduate students in the Special Education major.
Supervised student teaching in elementary and secondary education programs for deaf-blind students.

857B Techniques of Orientation and Mobility I
Fall, Spring. 3(1-4) RB: (CEP 457) R: Open only to master's students in the Special Education major whose area of emphasis is orientation and mobility or orientation and mobility teaching.
Methods of orientation and navigation related to blindness. Structure, function, and problems with the proprioceptive system in relation to orientation and mobility.

857C Techniques of Orientation and Mobility II
Fall, Spring. 3(1-4) P:M: (CEP 457) R: Open only to master's students in the Special Education major whose area of emphasis is orientation and mobility or orientation and mobility teaching.
Advanced techniques and methods for negotiating the range of outdoor environments from rural and residential to complex business areas. Simulations under blindfold and low vision conditions.

858 Special Education Law
Fall of even years. 3(3-0) Interdepartmental with Educational Administration. R: Open only to seniors or graduate students.
Analysis of State and Federal regulations, guidelines and court decisions related to special education and examination of their impact.

859 Independent Study: Education of Deaf Learners
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to graduate students in College of Education.
Directed individual study related to educating students who are deaf or hard of hearing.

860 Stress Management
Fall, Spring. 3(3-0)
Physiological and psychological foundations of the human stress response. Therapeutic approaches to stress management.

860A Perspectives in Multicultural Counseling
Summer. 3(3-0)
Impact of health, socio-cultural, economic, educational, legal, and vocational issues on the delivery of counseling service to diverse populations. Utilization process in both institutional and personal change.

861 Counseling Theory, Philosophy, and Ethics
Fall. 3(3-0) R: Open only to graduate students in Counseling, Rehabilitation Counseling, and 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.

862 Introduction to Individual and Group Counseling
Fall, Spring. 3(3-0) R: Open only to graduate students in the College of Education, College of Human Ecology, or School of Social Work.
Forming, working with, and ending groups. Building relationships. Handling obstacles. Developing and carrying out agendas in counseling. Simulated individual and group practice.

863 Counseling and Consulting Models and Strategies
Spring. 3(3-0) RB: (CEP 861 and CEP 862) R: Open only to graduate students in Counseling, Rehabilitation Counseling, School Psychology.
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.

864 Career Counseling
Spring. 3(3-0) R: Open only to graduate students in Education.
Career development theories and labor market and occupational information. Assessing and planning aspects of career counseling with various populations.

865 Assessment and Research in Counseling
Spring. 3(3-0) P:M: (CEP 821 and CEP 861 and CEP 862)
Supervised training and practice in mental health testing assessment, and use of the DSM-IV.
Counseling Educational Psychology and Special Education—CEP

880 Cognitive Assessment
Fall. 3(3-0) RB: (CEP 821) R: Open only to Ed.S. or Ph.D. students in the School Psychology or Counseling Psychology major. Measurement of intelligence. Observation, practice, supervision, interpretation, and report writing in an educational setting.

881 Personality Assessment
Spring. 3(3-0) RB: (CEP 821 and CEP 885 and PSY 475) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. Projective and objective personality assessment of children and adolescents in school.

882 Seminar in Counseling, Educational Psychology and Special Education
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. Seminar in the various fields of emphasis in Counseling, Educational Psychology and Special Education.

883 Psychology of Classroom Discipline
Summer. 3(3-0) R: Teaching experience. Theories of and strategies for the resolution of classroom discipline problems.

884 Roles and Functions of School Psychologists
Spring of odd years. 3(3-0) RB: (CEP 801 and CEP 821 and CEP 880) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. Multiple roles of school psychologists from a systems perspective. Historical, legal, ethical, and cultural issues.

885 Behavior Disorders in Children
Fall, Summer. 3(3-0) R: 12 graduate credits in Educational Psychology or related area. Not open to students with credit in PSY 853 or PSY 854. Characteristics, causes, and treatment of school-related behavior disorders in children within a developmental framework.

886 Psychological Assessment and Intervention I
Fall. 3(2-3) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. Conceptual and legal definitions of high-incidence disabilities. Psychological and educational assessments and interventions for learning, behavioral, and developmental problems of children and adolescents. Problem-solving assessment model. Informal and formal assessment methods. Eligibility determinations for special education.

887 Psychological Assessment and Intervention II
Spring. 3(2-3) P.M: (CEP 886) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. Assessment and remediation of learning and developmental problems of children and adolescents. Major methods of assessment and remediation of learning problems. Assessments and interventions for low-incidence disabilities.

888 Theories of Child Psychotherapy
Spring. 3(2-3) P.M: (CEP 885) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. Models of psychotherapy for children and adolescents. Empirically-supported, brief models appropriate for school and community-based practice. Critical appraisal of models, methods, and selected techniques.

889 Consultation in School Psychology
Spring. 3(3-0) P.M: (CEP 884 and CEP 880 and CEP 881 and CEP 887 and CEP 888) R: Open only to Ph.D. and Ed. Specialist students in the School Psychology major. School-based consultation, theoretical models and consultation skills. Communication and interpersonal skills, conflict management and, joint problem-solving, Ethical issues. Research on consultation.

890 Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. Individual or group study guided by a faculty member.

893A Rehabilitation Counseling Internship
Fall, Summer, 3 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CEP 894A) R: Open only to master's students in the Rehabilitation Counseling major. Supervised internship experience in community rehabilitation settings.

893B Internship in School Psychology
Fall, Spring, 3(3-20) A student may earn a maximum of 15 credits in all enrollments for this course. RB: (CEP 894B) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. Supervised experience in the practice of school psychology. Diagnostics, consultation and intervention.

893C Counseling Internship
Spring. 3 to 12 credits. A student may earn a maximum of 12 credits in all enrollments for this course. P.M: (CEP 894C) Application and integration of knowledge and skills in counseling individuals and groups in schools and agencies. Assessment, intervention, and evaluation of outcomes in field settings.

893D Special Education Internship: Teaching Deaf Children and Youth
Fall, Spring, 1 to 15 credits. A student may earn a maximum of 15 credits in all enrollments for this course. FC: (CEP 440 and CEP 442B and CEP 801A and CEP 802C) R: Open only to graduate students in the Special Education major. Supervised student teaching in elementary and secondary programs for deaf or hearing impaired students.

893F Special Education Internship: Teaching Children with Learning Disabilities
Fall, Spring. 4 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CEP 803A) R: Open only to graduate students in the Special Education major. Supervised student teaching in elementary and secondary education programs for learning disabled students.

893G Special Education Internship: Teaching Children with Emotional Impairments
Fall, Spring. 4 to 9 credits. A student may earn a maximum of 9 credits in all enrollments for this course. RB: (CEP 803A) R: Open only to graduate students in the Special Education major. Supervised student teaching in elementary and secondary programs for emotionally impaired students.

894A Rehabilitation Counseling Practicum
Fall, Summer. 6(3-12) RB: (CEP 862) R: Open only to master's students in the Rehabilitation Counseling major. Supervised practicum in a rehabilitation or human services setting.

894B School Psychology Practicum
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (CEP 885) R: Open only to graduate students in the School Psychology major. C: CEP 884 concurrently. Administration and interpretation of individual scales. Report writing. Consultation and team decision making.

894C Counseling Practicum
Fall, Spring. 6(3-12) RB: (CEP 863) R: Open only to master's students in Counseling. Supervised counseling experience in schools or agency. Analysis and critique of these experiences through group and individual consultation with the instructor.

894D Practicum in Educational Psychology
Fall, Spring, Summer. 1 to 10 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: (CEP 800 and CEP 801) R: Open only to graduate students in the Educational Psychology major. C: CEP 884 concurrently. Practicum in educational, business, or consulting settings. Possible projects include designing, developing, implementing, or evaluating instructional programs; conducting research; or working with practitioners to incorporate innovative instructional technologies.

894E Special Education Practicum: Children and Youth in Orientation and Mobility
Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. RB: (CEP 857B and CEP 857C) R: Open only to graduate students in the Special Education major. Supervised field experience in teaching independent travel to visually impaired and blind students in elementary and secondary education programs.

894G Special Education Practicum: Children and Youth with Learning Disabilities
Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open only to graduate students in the Special Education major. C: CEP 802A concurrently and CEP 804A concurrently. Supervised field experience with students who have learning disabilities. Planning, implementing, and critiquing instruction in elementary and secondary school settings.
Supervised field experience with students who have emotional impairments. Planning, implementing, and critiquing instruction in elementary and secondary school settings.

Supervised field experience with students who have emotional impairments, Planning, implementing, and critiquing instruction in elementary and secondary school settings.

Research Ethics
Spring. 1(0) Interdepartmental with Teacher Education. R: Open only to graduate students in the Department of Counseling, Educational Psychology, and Special Education. R: Open only to graduate students in the Department of Counseling and Special Education.

Master's Thesis Research
Fall. Spring. 1 to 9 credits. A student may earn a maximum of 15 credits in all enrollments for this course. R: Open only to master's students in the Department of Counseling, Educational Psychology, and Special Education.

Counseling, Educational Psychology, and Special Education.

Proseminar in Learning, Technology, and Culture
Fall. 3(3-0) R: Open only to Ph.D. students in Counseling, Educational Psychology, and Special Education.

Proseminar in Learning and Development
Spring. 3(3-0) P:M: (CEP 900) R: Open only to Ph.D. students in Counseling, Educational Psychology, and Special Education.

Proseminar in Technology and Education
Spring. 3(3-0) P:M: (CEP 900) R: Open only to Ph.D. students in Learning, Technology, and Culture.

The Psychology of Learning School Subjects
Spring. 3(3-0) R: Open only to Ph.D. students in the College of Education.

Cognitive Development across the Lifespan
Fall. 3(3-0) R: Open only to doctoral students in the College of Education.

Social-Emotional Development across the Lifespan
Spring. 3(3-0) R: Open only to doctoral students in the College of Education.

Cultural Perspectives on Learning and Development
Spring of even years. 3(3-0) R: Open only to graduate students in the College of Education.

Psychological Study of Teaching
Fall of odd years. 3(3-0) Interdepartmental with Teacher Education. R: Open only to doctoral students in the College of Education.

Cognition and Technology
Fall. 3(3-0) R: Open only to doctoral students in College of Education.

Motivation and Learning
Spring. 3(3-0) R: Open only to doctoral students in the College of Education.

Intellectual History of Educational Psychology
Fall. 3(3-0) R: Open only to doctoral students in the College of Education.

Psychological and Cognitive Aspects of Literacy Learning
Spring. 3(3-0) Interdepartmental with Teacher Education. R: Open only to doctoral students in the College of Education.

Learning Science with Technology: Theoretical Perspectives
Spring of odd years. 3(3-0) Interdepartmental with Teacher Education. R: Open only to doctoral students in the College of Education.

Technology and K-12 Education
Spring. 3(3-0) R: Open only to doctoral students in the College of Education.

Design of Media for Learning
Fall of even years. 3(3-0) R: Open only to doctoral students in the College of Education.

Theories of School-Based Psychological Interventions
Spring. 3(2-3) P:M: (CEP 884) R: Open only to Ed.S. or Ph.D. students in the School Psychology major. R: Open only to Ed.S. or Ph.D. students in the School Psychology major. R: Open only to Ed.S. or Ph.D. students in the School Psychology major.
Counseling Educational Psychology and Special Education—CEP

920 Construction of Psychoeducational Instruments
   Spring. 3(3-0) P.M: (CEP 932) RB: Familiarity with a statistical package. Development and evaluation of standardized techniques for measuring psychoeducational constructs. Instrument development, validity, reliability, norming, and scaling using both raw score and latent trait measurement models.

921 Psychometric Theory I
   Fall. 3(3-0) P.M: (CEP 920 and CEP 933) RB: Experience using a statistical package. Theory-oriented introduction to psychometrics and the measurement of educational and psychological traits. Measurement, scaling, validity, true score test theory, measurement error, reliability, generalizability theory, item response theory, measurement bias, and factor analysis.

922 Psychometric Theory II
   Fall of odd years. 3(3-0) RB: (CEP 921) and one statistics course. R: Open only to Ph.D. students. Expansion of generalizability theory, test and item bias, and equating. Measurement of change, profile analysis, scaling approaches, and validity generalization.

923 Item Response Theory
   Spring of odd years. 3(3-0) RB: (CEP 921 and CEP 933) Item response theory applied to test construction, scaling, and equating tests and their items.

930 Educational Inquiry
   Fall, Spring. 3(3-0)

931 Qualitative Methods in Educational Research
   Fall, Spring, Summer. 4(4-0) Interdepartmental with Teacher Education, Educational Administration. Administered by Department of Teacher Education. RB: (CEP 930) Multiple traditions of qualitative research in education. Theory, research questions and design, data collection and analysis, and reporting. Ethical issues. Appraising qualitative research.

932 Quantitative Methods in Educational Research I
   Spring. 3(3-0) RB: (CEP 822 or CEP 930 or KIN 871) or a course in introductory research methods. College algebra. Students from the College of Agriculture and Natural Resources and College of Human Ecology should be enrolled in programs with a focus on education. R: Open only to graduate students in the College of Education, College of Agriculture and Natural Resources, and College of Human Ecology. Techniques in data collection and data analysis used in educational and psychological research. Graphical and tabular representation of data. Concepts of statistical inference in educational contexts.

933 Quantitative Methods in Educational Research II
   Fall, Spring. 3(3-0) P.M: (CEP 932) RB: College algebra. Students from the College of Agriculture and Natural Resources and College of Human Ecology should be enrolled in programs with a focus on education. R: Open only to graduate students in the College of Education, College of Agriculture and Natural Resources, and College of Human Ecology. Advanced techniques of data analysis and statistical inference used in educational and psychological research. Multiple regression, analysis of variance, and basic principles of experimental design in educational applications.

934 Multivariate Data Analysis I
   Fall. 4(4-0) RB: (CEP 933) R: Open only to doctoral students in College of Education, College of Agriculture and Natural Resources, and College of Human Ecology. Multivariate methods, matrix algebra, and the general linear model as applied to educational research settings.

935 Advanced Topics in Multivariate Data Analysis II
   Spring of even years. 4(4-0) RB: (CEP 934) R: Open only to doctoral students in College of Education, College of Agriculture and Natural Resources, and College of Human Ecology. Application of discrete and continuous multivariate methods in educational research.

936 Synthesis of Educational Research
   Spring of odd years. 4(4-0) RB: (CEP 933) R: Open only to Ph.D. students. Synthesis and meta-analysis in educational research.

937 Survey Research Methods in Education
   Spring of even years. 4(3-2) RB: (CEP 933) R: Open only to graduate students in the College of Agriculture and Natural Resources or College of Education or College of Human Ecology. Principles and techniques of survey research methodology. Application of scales and questionnaires. Data analysis procedures. Emphasis on applications in education.

939 Seminar in Educational Measurement
   Fall of even years. 3(3-0) P.M: (CEP 920) R: Open only to doctoral students in the College of Education. Current issues in educational measurement. Ethics and standards in testing, educational testing policy, school effectiveness indices, and parameters of teacher testing.

940 Policy Analysis of Trends in Special Education
   Spring of odd years. 3(3-0) R: Open only to doctoral students in the Special Education major or approval of department. Economic, social, legal and organizational trends in special education. Focus on the theoretical framework of organizational change.

941 Academic Issues in Special Education for At-Risk Students
   Fall of odd years. 3(3-0) R: Open only to doctoral students in the Special Education major. Academic assessment and instructional research in special education. Inquiry in special education related to the design and evaluation of academic programs for learning disabled, mentally retarded, emotionally impaired, and other low achieving students.

942 Educational Perspectives on Low-Incidence Populations in Special Education
   Fall of even years. 3(3-0) R: Open only to doctoral students in Special Education in College of Education. Practice and policy relating to the educational consequences of low-incidence disabilities. Emphasis on deafness, blindness, deaf-blindness, and multiple/severe disability. Placement and accommodation issues in integrated educational settings.

943 Multicultural Issues in Special Education
   Fall of odd years. 3(3-0) R: Open only to doctoral students in the Special Education major. Relationships among race, gender, culture, social class, and disability. Individual, group and societal responses to disability. Anthropological, social and psychological theories about origins of cultural diversity.

944D Practicum in Counselor Education
   Fall, Spring. 3(1-6) A student may earn a maximum of 15 credits in all enrollments for this course. R: Open only to Ph.D. students in the Counselor Education or Rehabilitation Counseling Education major. Theory and supervised teaching in educating and supervising prospective counselors. Approaches, models, and strategies.

949 Critical Issues in Special Education
   Spring of even years. 3(3-0) RB: (CEP 901A) R: Open only to doctoral students in Special Education. Topics in special education, including cognition and sensory impairments, literacy for at-risk students, program design, small sample research, and staff development.

950 Proseminar in Counseling Psychology
   Fall. 3(3-0) R: Open only to Ph.D. students in the Counseling Psychology major. Historical development of counseling psychology as a professional discipline. Traditional and contemporary issues in theory, research, practice and training.

951 Technology, Society, and Culture
   Fall. 3(3-0) R: Open only to doctoral students. Interactions among technology, society, and culture, with special attention to education. Technology adoption as a social phenomenon. Effects of technology on communication, social interaction, and sharing of knowledge. Effects of systems and practices on technology.

952 Technology for Teaching and Learning in Higher Education
   Spring. 3(3-0) R: Open only to doctoral students. Technology for support of teaching and learning in higher educational settings. Theories, research, and design of on-line learning. Electronic portfolios. Libraries in the age of the Internet.
Counseling Educational Psychology and Special Education—CEP

953 Teachers and Technology
Fall of even years. 3(3-0) R: Open only to doctoral students in the College of Education.
Impact of new technologies on teacher knowledge and practices of teaching. Teachers' use of technology, teacher knowledge, teacher education, and changing roles of teachers.

955 Research Design and Methods for Learning, Technology, and Culture
Fall. 3(3-0) P:M: (CEP 930) and (CEP 932 or TE 931) R: Open only to doctoral students in the College of Education.
Research design and methods for studying learning, development, technology, and culture in educational contexts: classrooms, computer-mediated environments, homes, communities, and workplaces.

956 Mind, Media, and Learning
Spring of even years. 3(3-0) R: Open only to doctoral students.
Philosophy, psychology, and sociology of new media. Media effects and learning with media. Issues of gender, identity, culture in technologically mediated environments, including Internet, virtual reality, computer games, simulations, artificial intelligence (AI) systems, and pedagogical agents.

957 Learning in Complex Domains
Fall. 3(3-0) R: Open only to doctoral students.

958 Using Literacy to Learn: Curriculum and Pedagogy
Fall. 3(3-0) Interdepartmental with Teacher Education. Administered by Department of Teacher Education. R: Open only to Ph.D. students in the College of Education.
Centrality of oral and written language in all school learning. Curriculum as text and instruction as discourse. Historical development of literacy curriculum and pedagogy as conceptualized and enacted in school settings. Language of teaching and learning in the classroom.

959 Acquisition and Development of Language and Literacy
Spring. 3(3-0) Interdepartmental with Teacher Education. Administered by Department of Teacher Education. R: Open only to Ph.D. students in the College of Education.

960 Theoretical Foundations of Counseling Psychology
Fall. 3(3-0) R: Open only to Ed.S. or Ph.D. students in the Counseling Psychology or Rehabilitation Counselor Education or School Psychology or Counselor Education major.
Theoretical models of counseling, personality, and behavior change. Research literature on the process and outcomes of counseling. Selected professional issues.

961 Perspectives on Diversity in Counseling Psychology
Spring. 4(3-4) R: Open only to Ed.S. or Ph.D. students in the Counseling Psychology or Counselor Education or Rehabilitation Counselor Education or School Psychology major.
Cultural, gender, and disability dynamics as they affect human functioning and counseling practices. Strategies and techniques for multicultural perspectives in counseling.

962 Psychology of Career Development
Spring. 3(3-0) RB: (CEP 884) R: Open only to Ph.D. students in the Counseling Psychology or Counselor Education or Rehabilitation Counselor Education major.
Theories of career choice and development. Psychological processes underlying vocational behavior.

963 Ethics in Counseling Psychology
Spring. 3(3-0) R: Open only to Ed.S. or Ph.D. students in the Counseling Psychology or Counselor Education or Rehabilitation Counselor Education or School Psychology major.
Ethical, legal, and policy issues in counseling. Traditional and contemporary issues in theory, research, practice and training with a focus on ethics including ethical theories, principles, standards, codes of conduct, and legal issues.

964 Counseling Foundations
Fall of odd years. 3(3-0) RB: (CEP 960 or concurrently) R: Open only to Ph.D. students in the Counselor Education or Rehabilitation Counselor Education major.

965 Current Research and Issues in Counseling
Fall of even years. 3(3-0) RB: (CEP 964) R: Open only to Ph.D. students in the Counselor Education or Rehabilitation Counselor Education major.
Practice and research issues in rehabilitation counseling and school counseling.

966 Psychological Diagnosis and Assessment I
Fall. 3(3-0) RB: (CEP 960) R: Open only to Ph.D. students in the Counseling Psychology major.

967 Psychological Diagnosis and Assessment II
Spring. 3(3-0) RB: (CEP 966) R: Open only to Ph.D. students in the Counseling Psychology major. C: CEP 994B concurrently.
Diagnostic categories, mental status examination, differential diagnosis, and objective and projective psychological assessment.

968 Research Methods in Counseling Psychology
Fall. 3(3-0) RB: (CEP 933) R: Open only to Ph.D. students in the Counseling Psychology or Rehabilitation Counselor Education or Counselor Education major.
Research topics and designs in counseling psychology, with emphasis on the development of a viable research proposal.

969 Supervision in Counseling Psychologists
Spring. 3(2-3) RB: (CEP 967 and CEP 994B) R: Open only to Ph.D. students in the Counseling Psychology major.
Theoretical, empirical and practical aspects of the supervisory relationship. Process and outcome variables.

971 Teaching Practicum in Counselor Education
Fall of even years. 3(3-2) P:M: (CEP 970) R: Open only to doctoral students in the Counseling Psychology or Counselor Education or Rehabilitation Counselor Education or School Psychology major.
Development of personalized teaching portfolios. Preparation of training modules that address critical issues in counseling and teaching evaluation.

975 Psychological Assessment of Cognitive Dysfunction
Spring of even years. 3(3-0) RB: (CEP 966 or CEP 880) R: Open only to doctoral or Educational Specialist students in the Department of Counseling, Educational Psychology, and Special Education.

982 Seminar in Counseling, Educational Psychology and Special Education
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to Ph.D. students in the College of Education.
Seminars in the various fields of emphasis in counseling, educational psychology, and special education.

990 Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to Ph.D. students.
Individual or small group study, guided by a faculty member, in the areas of Counseling, Educational Psychology and Special Education.

991A Special Topics in Learning, Technology and Culture
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to doctoral students in the College of Education.
Special topics in learning, technology, and culture in education.

991B Special Topics in Educational Statistics and Research Design
Fall, Spring. 4(0-4). A student may earn a maximum of 16 credits in all enrollments for this course. RB: (CEP 933) R: Open only to Ph.D. students.
Special topics in educational statistics and research design.

994A Counseling Psychology Practicum I
Fall. 3(0-3) RB: (CEP 863) R: Open only to Ph.D. students in the Counseling Psychology major.
Supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.
994B Counseling Psychology Practicum II
Spring, 3(0-0) P:M: (CEP 994A) R: Open only to Ph.D. students in the Counseling Psychology major.
Intermediate supervised practice in counseling, assessment, diagnosis and related professional activities within an agency providing counseling and psychological services.

994C Advanced Practicum in Counseling Psychology
Spring, 3(0-0) P:M: (CEP 994B) R: Open only to Ph.D. students in the Counseling Psychology major.
Client conceptualization, assessment, intervention design, ethical and professional development issues, supervision, and consultation.

994D Laboratory and Field Experience in Special Education
Fall, Spring, 3(1-6) R: Open only to Ph.D. students in Special Education. Approval of department.
Supervised experience working with students with disabilities in K-12 classrooms, for students who need additional experience in teaching environments.

995 Practicum in Research Design and Data Analysis
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. RB: (CEP 933) R: Open only to doctoral students in the College of Education.
Supervised research practicum. Design, execution, analysis, presentation, critique, and revision of research projects.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 100 credits in all enrollments for this course. R: Open only to doctoral students in the Department of Counseling, Educational Psychology and Special Education.
Doctoral dissertation research.

220 Criminology
Fall, Spring, 4(4-0) Interdepartmental with Sociology. RB: (CJ 110 or SOC 100) R: Open only to students in the Criminal Justice or Sociology major or approval of school.

292 Methods of Criminal Justice Research
Fall, Spring, 4(4-0) RB: (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.

335 Police Process
Fall, Spring, 4(4-0) RB: (CJ 292) R: Open only to juniors or seniors in Criminal Justice major.
Roles, responsibilities, issues, and trends pertinent to contemporary law enforcement organizations in contemporary society.

355 Juvenile Justice Process
Fall, Spring, 4(4-0) P: (CJ 220) R: Open only to juniors or seniors in the Criminal Justice major.
The juvenile justice system and law. Theories of juvenile delinquency and deviance. Sociological, psychological, and anthropological perspectives.

365 Corrections Process
Fall, Spring, 4(4-0) RB: (CJ 292) R: Open only to juniors or seniors in the Criminal Justice major.
Historical and contemporary views of offender management and treatment. Corrections system operations. Effects of institutionalization. Alternatives to incarceration.

375 Criminal Law Process
Fall, Spring, 4(4-0) RB: (CJ 110) or concurrently and CJ 292 R: Open only to juniors or seniors.
Administration of criminal law. Investigation, prosecution, adjudication, and sentencing. Constitutional safeguards and legal controls on official action.

385 Introduction to Private Security
Fall, 3(3-0) R: Not open to freshmen or 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.

400H Honors Study
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to Honors College seniors and approval of school.
Faculty-supervised group or individual study dealing with a phase of the criminal justice system.

421 Minorities, Crime, and Social Policy
Spring of odd years. 3(3-0) P: (CJ 110 or SOC 100) R: Open only to juniors or seniors.
A socio-historical analysis of the effects of race and ethnicity on legitimate social opportunities, criminal behavior, victimization, and differential judicial processing. Analysis of the impact of assimilation and acculturation on criminal behavior, victimization, and criminal justice processes.

422 Comparative and Historical Criminal Justice
Fall of odd years. 3(3-0) RB: (CJ 110) R: Open only to juniors or seniors in the Criminal Justice major.
Comparative study of criminal justice systems. Theories, types, and effects of intervention.

425 Women and Criminal Justice
Fall of even years. 3(3-0) Interdepartmental with Women's Studies. RB: (CJ 220 or WS 201) R: Open only to juniors or seniors.
Theories on women's victimization and criminality. Women's experiences as victims, offenders, and criminal justice employees. Laws and their effects on the rights of women in the criminal justice system.

432 Community Policing
Spring. 3(3-0) RB: (CJ 335) R: Open only to juniors or seniors in the Criminal Justice major.
Community policing philosophy, applications, issues, and contemporary research. Community policing models.

433 Law Enforcement Intelligence Operations
Spring. 3(3-0) RB: (CJ 335) R: Open only to juniors or seniors in the Criminal Justice major.
Law enforcement intelligence as an analytic tool for case development and resource allocation. Historical, ethical, legal, and operational issues affecting current practice.

434 Police Administration (W)
Fall. 3(3-0) P: Completion of Tier I writing requirement. RB: (CJ 335) R: Open only to seniors in the Criminal Justice major.
Organizational theory, leadership, communications, and labor relations in police administration. Historical and legal perspectives.

435 Investigation Procedures
Fall. 3(3-0) RB: (CJ 375) R: Open only to seniors in the Criminal Justice major.

455 Delinquency and Treatment Approaches
Spring. 3(3-0) RB: (CJ 355) R: Open only to juniors or seniors in the Criminal Justice major.

456 Criminal Careers and Career Criminals (W)
Spring. 3(3-0) P: Completion of Tier I writing requirement. RB: (CJ 355 or CJ 365) R: Open only to seniors in the Criminal Justice major.

465 Correctional Programming and Analysis
Spring. 3(3-0) RB: (CJ 355 or CJ 365) R: Open only to juniors or seniors in Criminal Justice.
Contemporary institutional and community corrections programs. Research on adult and juvenile crime prevention, diversion, and treatment programs.