222 Statics and Strengths of Materials

Spring. 3(3-0) P:M: (CMP 210 and CMP 211) and (MTH 124 or MTH 132 or LBS 118) and (PHY 183 or PHY 231 or PHY 231B or PHY 231C) SA: BCM 222 Not open to students with credit in ME 221 or ME 222.

Equilibrium of forces. Free body diagrams. Force components. Bending moments. Stress and strain. Mechanical properties of materials. Beams and trusses. Computer applications. Indeterminate structures

230 Utility Systems

Spring. 4(4-0) P:M: (CMP 210 and CMP 211) SA: BCM 230

Heating, cooling, ventilating, electrical, gas, lighting, water, waste water, telecommunications, fire protection, safety, security, and sound control systems in residential and commercial construction. Applicable codes

305 Site Construction and Measurement

Fall. 3(2-2) P:M: (CMP 230) R: Open only to juniors or seniors in the Construction Management major. SA: BCM 305

Site construction methods, materials and equipment for buildings, soil, foundation, erosion, and storm water. Layout, leveling, surveying, and underground utilities.

315 Construction Quantity Surveying

Spring. 3(2-2) P.M: (CMP 305) and (CSE 101 or CSE 131 or CSE 231 or CSS 110 or LBS 126) R: Open only to juniors and seniors in the Construction Management or Civil Engineering major. SA: BCM 315

Measurement of quantities for construction projects. Work breakdown structure. Industry standards.

322 Structural Systems

Fall. 3(3-0) P:M: (CMP 222) or (ME 221 or ME 222) R: Open only to juniors or seniors in the Construction Management or Civil Engineering majors. SA: BCM 322 Not open to students with credit in CE 406.

Structural design using wood, steel and concrete. Beams, columns, footings, and foundation walls. Loading, soils.

325 Real Estate Principles and Construction Finance

Fall. 4(4-0) P:M: (EC 201 or EC 202 or EC 251H or EC 252H) and (MTH 124 or MTH 132 or LBS 118) R: Open only to juniors or seniors in the Construction Management major or approval of department. SA: BCM 225

Financial methods and instruments utilized in construction, rehabilitation, development, and purchase of real estate. Terms, contracts, valuation, brokerage, taxation, risk, and interest rate analysis.

328 Construction Presentation Graphics

Fall, Spring. 2(1-2) P:M: (CMP 230) and (CSE 101 or CSE 131 or CSE 231 or CSS 110 or LBS 126) R: Open only to juniors or seniors in the Construction Management major. SA: BCM 328

Graphic communication methods used in construction organizations.

353 Land Development

Spring. 3(3-0) P:M: (CMP 211 and CMP 305) and (CMP 325 or UP 458) R: Open only to juniors or seniors in the Construction Management or Civil Engineering or Landscape Architecture or Urban and Regional Planning major. SA: BCM 353

Methods and practices of land development. Market research. Financial feasibility. Land use regulations. Legal documentation. Site analysis and design. Case studies.

385 Construction Documents and Contracts (W)

Spring. 3(3-0) P:M: (CMP 305) Completion of Tier I writing requirement. R: Open only to juniors and seniors in the Construction Management or Civil Engineering or Landscape Architecture major. SA: BCM 385

Construction contracts for commercial and residential projects. Contract procedures, bidding, changes, substitutions. Specifications. Insurance, bonding, claims, disputes, and payments. Responsibilities of owners and contractors.

401 Construction Safety Management

Spring. 3(3-0) P:M: (CMP 305) RB: (CMP 385 or CMP 423 or concurrently) R: Open only to juniors or seniors in the Construction Management or Civil Engineering major. SA: BCM 401

Construction safety with Occupational Safety and Health Administration (OSHA) emphasis. General safety and health provisions, records, and safety management programs. Personnel protection and life saving equipment. Economic impact of safety program.

411 Construction Project Scheduling

Fall. 3(2-2) P:M: (STT 200 or STT 201 or STT 315 or STT 421) and (CMP 315 and CMP 322) R: Open only to juniors or seniors in the Construction Management or Civil Engineering major. SA: BCM 411

Basic construction project scheduling procedures. Work breakdown structure, critical path method, and scheduling logic. Activity durations, status reports, resource allocation, and control.

415 Cost Estimating and Analysis

Fall. 3(2-2) P:M: (CMP 315 and CMP 385) SA: BCM 415

Estimation of construction project costs: direct and indirect, labor, material, and equipment. Overhead and profit. Bidding. Computer-based estimating.

423 Construction Project Management

Fall, Spring. 3(3-0) P:M: (CMP 385 and CMP 411 or concurrently and CMP 415 or concurrently) R: Open only to seniors in the Construction Management or Civil Engineering major. SA: BCM 423

Construction management principles and practices. Project planning and controls.

435 Residential Building Projects (W)

Spring. 3(1-4) P:M: (ACC 201 and ACC 202) or (ACC 230) and (CMP 328 and CMP 353 and CMP 423 or concurrently) and completion of Tier I writing requirement. R: Open only to seniors in the Construction Management major. SA: BCM 435

Development of a residential project and business plan.

436 Commercial Building Projects (W)

Spring. 3(1-4) P:M: (ACC 201 and ACC 202) or (ACC 230) and (CMP 328 and CMP 353 and CMP 423 or concurrently) and completion of Tier I writing requirement. R: Open only to seniors in the Construction Management major. SA: BCM 436

Evaluation, procurement, and management of commercial building projects.

490 Independent Study

Fall, Spring, Summer. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Open only to Construction Management majors. Approval of department; application required. SA: BCM 490

Special problems in acquisition and development of residential land, design, construction technology, building materials, finance, marketing, construction management, or land use codes and regulations.

491 Special Topics in Building Construction Management

Fall, Spring. 1 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. P:M: (CMP 210) R: Open only to Construction Management majors. Approval of department. SA: BCM 491

Topics such as computer methods in building construction management, construction technology, solar energy, special land use codes, or new technology management.

493 Professional Internship in Building Construction Management.

Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Open only to juniors or seniors in the Construction Management major. Approval of department; application required. A student may earn a maximum of 6 credits in all enrollments for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493,CMP 493, CSS 493, EEP 493, FIM 493, FSC 493, FW 493, HRT 493, PKG 493, PLP 493, PRR 493, and RD 493. SA: BCM 493

Supervised professional experiences in agencies and businesses related to a student's major field of study.

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(3-0) R: Open only to undergraduate students in deaf education, learning disabilities, kinesiology, and audiology and speech sciences.

Communicative, linguistic, physical, sensory, behavioral, affective, and cognitive differences in learning in multicultural classrooms. Factors that mediate access to knowledge.

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.M. 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:M: 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, Summer. 3(3-0) P:M: (CEP 341) R: Not open to freshmen.

Production, conversation, and grammatical analysis of American Sign Language.

441B American Sign Language II

Fall, Spring, Summer. 3(3-0) P:M: (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:M: (CEP 441B)
Use of space for multiple-person discourse. Formal

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:M: (CEP 442A)

Use of space for creative interpretation of literature, science, mathematics, socio-historical concepts. Formal register. Colloquial and idiomatic language.

444 Education of Students with Severe and Multiple Disabilities (W)

Spring. 3(3-0) P.M: 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.

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 cooperative discipline. Focus on problem-solving and peer collaboration.

451 Models of Special Education Administration and Services

Fall. 3(3-1) R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities 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.

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:M: (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.

502B Internship in Teaching Diverse Learners II: Emotional Impairment

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.

502C Internship in Teaching Diverse Learners II: Deaf Education

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.

502D Internship in Teaching Diverse Learners II: Visual Impairment

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 502C or CEP 854B. C: CEP 803D concurrently and CEP 804D concurrently

Internship in heterogenous 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.

800 Psychology of Learning in School and Other Settings

Fall, Spring, Summer. 3(3-0)

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.

801 **Psychological Development: Learner Differences and Commonalities**

Fall, Spring, Summer. 3(3-0)

Development of differences and commonalities in learners across the lifespan. Contextual influences on development. Implications for learning in schools and other settings.

Professional Role in Teaching Special 801A Education I:Collaboration and Consultation

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 ma 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.

Developing Positive Attitudes toward 802 Learning

Fall. 3(3-0) RB: (CEP 800)

Behavioral, individual-difference, and cognitive perspectives on student motivation to learn.

Reflection and Inquiry in Teaching Special Education I: Mild Impairment

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 801A 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

Reflection and Inquiry in Teaching Special Education I: Deaf Education

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.

Reflection and Inquiry in Teaching Special Education I: Visual Impairment

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. Not open to students with credit in CEP 802A or CEP 802C. C: CEP 801A concurrently and TE 501 concurrently.

Qualitative and quantitative research methods on teaching and learning of blind students. Framing education problems in special education. Designing and assessing studies of Braille literacy and other expected outcomes of special education.

803A **Professional Role in Teaching Special Education II: Assessment of Mild**

Impairment

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.

803C **Professional Role in Teaching Special Education II: Assessment of Deaf**

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 learn-

ing. Informal and formal assessment methods for diagnosing communication functions. Engage with families to improve responsiveness to the assessment of communication skills.

803D **Professional Role 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 ma jor. 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.

Reflection and Inquiry in Teaching Special Education II: Mild Impairment 804A

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 to master's students in the Special Education major. Not open to students with credit in CEP 804C or CEP 804D. C: CEP 502A concurrently, 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.

804C Reflection and Inquiry in Teaching Special Education II: Deaf Education

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.

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

Current technologies for teaching and learning mathematics with understanding. Technology for multiple representations of mathematical ideas, modeling, and authentic learning environments. Psychological and mathematical perspectives on learning mathematics.

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, databases, 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, Summer. 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

Fail. 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 empha-

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

Spring. 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

Spring. 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

Fail, 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 456A) 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

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.

Stress Management

Fall, Spring. 3(3-0)

Physiological and psychological foundations of the human stress response. Therapeutic approaches to stress management.

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.

Counseling Theory, Philosophy, and 861

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.

870 Foundations of Rehabilitation Counseling

Fall. 3(3-0) R: Open only to master's students in the Rehabilitation Counseling ma-

History, philosophy, values, legislation, policy and practice of the field of rehabilitative counseling.

Medical and Psychological Aspects of Disability

Fall. 3(3-0)

Types of physical, cognitive and emotional disabilities and their implications for vocational rehabilitation. Psychosocial adjustments to chronic disease and disability.

872 Social and Environmental Aspects of Rehabilitation

Spring. 3(3-0)

Social and political factors that handicap individuals with disabilities. The Independent Living movement, philosophy, legislation and services. Accommodations and enabling technology. Attitude modification and client empowerment.

Employment Strategies for Individuals with Disabilities

Fall. 3(3-0)

Public policy, resources, and intervention strategies for assisting persons with disabilities to adapt to the work-place and to achieve vocational outcomes. Assisting employers in accommodating and retaining employees with disabilities.

Transition from School to Adult Life for Students with Disabilities

Summer, 3(3-0)

Historical, legislative, theoretical, and operational aspects of the transition from school to adult life for students with disabilities.

Substance Abuse and Treatment

Summer. 3(3-0)

Physical, intellectual, social, and psychological effects of chemical use and abuse. Assessment tools and strategies for therapeutic intervention.

Professional Issues in Rehabilitation Counseling

Spring. 3(3-0) RB: (CEP 870 and CEP 893A or concurrently) R: Open only to Master's students in Rehabilitation Counseling.

Applications of case management strategies, processes and practices in rehabilitation counseling.

Vocational Assessment and Research in 877 Rehabilitation

Fall. 3(3-0) RB: (CEP 821 and CEP 870) R: Open only to master's students in Rehabilitation Counseling and doctoral students in Rehabilitation Counseling and Counseling.

Advanced assessment techniques and strategies for rehabilitation settings. Applied research and program evaluation in rehabilitation counseling.

Diagnosis, Treatment and Community Services In Psychiatric Rehabilitation

Summer. 3(3-0)

Major types of psychiatric conditions and their effects on personal and vocational functions. Diagnostic criteria and procedures. Treatment planning and expected outcomes. Medical and psychosocial rehabilitation models of treatment. Community ser-

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.

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 maior.

Projective and objective personality assessment of children and adolescents in school.

Seminar in Counseling, Educational 882 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 Educa-

Psychology of Classroom Discipline

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

Roles and Functions of School 884 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.

Behavior Disorders in Children

Fall, Summer. 3(3-0) RB: 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 schoolrelated 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.

Theories of Child Psychotherapy 888

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.

Consultation in School Psychology 889

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 problemsolving. 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 mem-

893A **Rehabilitation Counseling Internship**

Fall, Spring, 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.

Internship in School Psychology 893B

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 interven-

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.

Special Education Internship: Teaching 893D 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. RB: (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

Special Education Internship: Teaching 893F 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 stu-

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.

School Psychology Practicum 894B

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 Counsel-

Supervised counseling experience in schools or agency. Analysis and critique of these experiences through group and individual consultation with the instructor.

Practicum in Educational Psychology 894D

Fall, Spring, Summer. 1 to 3 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.

Special Education Practicum: Children 894E 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.

Special Education Practicum: Children 894H and Youth with Emotional Impairments

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.

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

Special Education Practicum: Children 894I and Youth in Deaf Education

Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. RB: (CEP 440 or concurrently) R: Open only to graduate students in the Special Education major.

Supervised field experience with deaf and hard-ofhearing students. Planning, implementing, and critiquing instruction in elementary and secondary school settings.

895 Research Ethics

Summer. 1(1-0) Interdepartmental with Teacher Education; Kinesiology; Educational Administration. R: Open only to graduate students in the Department of Counseling, Educational Psychology and Special Education or Department of Educational Administration or Department of Kinesiology or Department of Teacher Education, SA: PES 895

Identifying and resolving ethical problems in research, including issues related to collegial interactions; authorship, publication, and reviewing practices; data management; ownership of data and intellectual property; conflicts of interest; protection of human and animal subjects; and lab safety and compliance.

Master's Thesis Research

Fall, Spring, Summer. 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.

Master's thesis research.

900 Proseminar in Learning, Technology, and Culture

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

Historical, theoretical, empirical, methodological, and philosophical issues. Research literature on learning, teaching subject matter, and social-cultural contexts.

901A 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. SA: CEP 901

Historical theoretical, empirical, methodological, and philosophical issues. Research literature on learning and development in educational settings.

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.

Historical, theoretical, empirical, methodological and philosophical issues. Research literature on technology in education.

902 The Psychology of Learning School Subjects

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

Psychological theories and research regarding learning and teaching of school subjects, including mathematics, science, and reading. Psychological learning contexts in and out of school. Transfer and representation of knowledge.

Cognitive Development across the 903 Lifespan

Fall. 3(3-0) RB: (CEP 801) R: Open only to Ph.D. students in Education.

Development of thinking skills in learning across the lifespan from three theoretical perspectives. Relationship between cognitive development and learning in schools and other contexts.

904 Social-Emotional Development across the Lifespan

Spring. 3(3-0) RB: (CEP 801) R: Open only to doctoral students in the College of Educa-

Social and emotional aspects of human development. Relationship between social-emotional development and learning in school and other settings.

905 Cultural Perspectives on Learning and Development

Spring of even years. 3(3-0) RB: (CEP 800 and CEP 801) R: Open only to graduate

students in the College of Education.

Theories and research in cultural psychology. Relations among culture, learning, and human development in school and other settings such as family, community, and work. Implications for educational practice.

907 **Psychological Study of Teaching**

Fall of odd years. 3(3-0) Interdepartmental with Teacher Education. R: Open only to Ph.D. students in Education.

Research literature on psychological aspects of teachers and teaching. Topics include teacher's decision-making, learning from experience and developmental changes.

909 **Cognition and Technology**

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

Interaction of computer technologies and cognitive theories. Learning with new technologies; how technology influences theories of mind. How theories of cognition may guide the development of new technologies.

910 Motivation and Learning

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

Enduring questions about motivation and learning. Role of skill versus will in motivation. Higher-order thinking in learning.

911 Intellectual History of Educational **Psychology**

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

Ideas and perspectives on learning and development that have shaped educational psychology. Learning of school subject matters. Learning and development in relation to educational settings

912 **Psychological and Cognitive Aspects of** Literacy Learning

3(3-0) Interdepartmental Teacher Education. R: Open only to doctoral students in the College of Education.

Theory and research on psychological and cognitive aspects of literacy learning and use in sociocultural contexts.

913 Psychology and Pedagogy of Mathematics

Fall of odd years. 3(3-0) Interdepartmental with Teacher Education. RB: (CEP 902) R: Open only to Ph.D. students in College of Education.

Psychological theory and research on the learning of mathematics. Development of mathematical thinking and knowledge in school and other settings.

Learning Science with Technology: **Theoretical Perspectives**

Spring of odd years. 3(3-0) Interdepartmental with Teacher Education.

Learning and teaching of science with the Internet and other technology-mediated environments and tools. Theories and research on the learning of science. Analysis of on-line and face-to-face science learning environments.

Literacy, Learning and Development in 915 Sociocultural Context

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

Role of language and literacy in mediating cognition, affect, and action in educational contexts. Relationship between oral and written discourse and sociocultural contexts.

Technology and K-12 Education

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

Technology for teaching and learning in K-12 settings. Historically important and current technologyrich innovations in terms of learning, teaching, curriculum, and social contexts of learning.

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

Design knowledge as it intersects education, psychology, communications, engineering, media theory, art and aesthetics. Research methodologies for understanding design. Design of educational media.

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.

Theories and models of school-based interventions. Theories of organization and purposes of schooling in society. Theories of prevention of psychopathology and promotion of children's competence in school settings.

919 **Current Research and Issues in School Psychology**

Spring of even years. 3(3-0) R: Open only to Ed.S. or Ph.D. students in the School Psychology major.

Rotating topics include role function, diagnosis and eligibility concerns, innovative educational and behavioral interventions.

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.

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)

Multiple sources of inquiry. Critical assessment of common assumptions about research. Relationship between data and theory. Objectivity, validity, and causal inference across research traditions. Research ethics. Relationship among researcher, researched, and audience. Question formation.

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(3-3) 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. Alternative sampling designs. Development 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 within 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

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 Counselor 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.

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

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.

Problems of learning in complex and ill-structured domains. Real-world knowledge application. Learning difficult subject matter. Situated, collaborative, and case-based approaches to learning in complex domains. Technologies for enabling new kinds of learning.

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

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.

Literacy development including oral language base from birth through adulthood. Oral and written language development and learning in and out of school. Sociocultural contexts in relationship to schooling. Cross-cultural and international literacy development. Schooling, global economy, world health, and post-colonialism.

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 864) 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.

Traditional and contemporary issues in theory, research, practice and training with a focus on ethics including ethical theory, 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.

Foundations and practice of rehabilitation and school counseling. Pre-service preparation issues. Professional and policy implications.

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.

Principles of psychological testing and measurement. Principles of clinical interviewing. Cognitive and intellectual assessment. Psychological report writing.

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

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 of 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.

Human neuroanatomy and the functional organization of the central nervous system. Cognitive and behavioral sequelae of neurological disabilities. Neuropsychological assessment of intellect, memory, learning abilities, visuospatial functioning, and problem solving in children and adults.

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(4-0) 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(0-9) RB: (CEP 960) 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(0-9) 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

PsychologySpring. 3(0-9) 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.

CRIMINAL JUSTICE CJ

School of Criminal Justice College of Social Science

110 Introduction to Criminal Justice

Fall, Spring. 4(4-0)

Description and analysis of agencies and processes involved in administration of justice in the United States.

210 Introduction to Forensic Science

Fall. 4(4-0) RB: A background in general chemistry and biology.

Techniques of crime scene search. Collection and preservation of physical evidence. Class and individual scientific tests. Rules of evidence governing admissibility of physical evidence. Expert testimony.