This section contains descriptions of College of Education and Human Development courses. The Class Schedule, published just before the registration period each quarter, lists the days, hours, locations, grading options, and instructors.

**COURSE NUMBERING SYSTEM**

1000 to 1999 Courses primarily for freshmen and sophomores
3000 to 3999 Courses primarily for juniors and seniors
5000 to 5999 Courses for juniors, seniors, adult specials, and graduate (including M.Ed.) students
8000 to 8999 Courses for graduate students only

**COURSE SYMBOLS**

, The comma, used in prerequisite listings, means “and.”
† All courses preceding this symbol must be completed before credit will be granted for any quarter of the sequence.
§ Credit will not be granted if credit has been received for the course listed after this symbol.
¶ Concurrent registration is required (or allowed) in the course listed after this symbol.
# Approval of the instructor is required for registration.
∆ Approval of the department offering the course is required for registration.
! Work for this course will extend past the end of the term. A grade of K will be assigned to indicate that the course is still in progress.
H Honors course (follows the course number)
PEL Physical education licensure (see kinesiology and leisure studies)

A prerequisite course listed by number only (e.g., prereq 5246) is in the same department as the course being described.

**GRADING OPTION**

If either A-F only or S-N only is printed after the prerequisite statement for a course, you must register for that grading system. If no grading system is listed, you may often register for either A-F or S-N grading.

**ADULT EDUCATION (ADED)**

**WORK, COMMUNITY, AND FAMILY EDUCATION**

AdEd 5103. Adult Education Workshop. (1-12 cr [max 12]; prereq practicing adult educator or #; A-F only) Study of topic appropriate to the activities and interests of the participants.


AdEd 5110. The Status and Role of Women in American Society. (4 cr; A-F only) Role of women in American history; perceptions of women in literature and art; attention to women in social studies curricula; human sexuality; male and female character—nature and/or nurture; choices of family and career.

AdEd 5201. Introduction to the Undereducated Adult. (3 cr; A-F only) Issues in literacy education, characteristics, problems, individual differences of the undereducated adult learner; traditional and innovative approaches for working with adults in literacy programs.

AdEd 5202. Adult Literacy: Diagnosis and Prescription. (3 cr; prereq #: A-F only) Application of diagnostic information, instruments, and techniques to learning difficulties of adults in reading and mathematics programs.

AdEd 5203. Adult Literacy: Methods and Materials. (3 cr; prereq 5202 or CI 5410 or Elem 5331 or #: A-F only) Teaching literacy skills to adults: basic theories, approaches, overview of methods and materials for implementation.

AdEd 5204. Literacy in Work Settings. (3 cr, §VoEd/WCFE 5204; A-F only) Overview of concepts in integrating literacy instruction into vocational training programs and work settings; diagnosis and methods of assessing needs of vocational students and workers on a job; techniques for building the capacity to meet these needs into training programs.

AdEd 5205. Field Experience in Adult Education. (4-8 cr [max 8]; prereq #: S-N only) Supervised fieldwork practice and seminars; presentations and evaluations of adult education practice.

AdEd 5301. Designing the Adult Education Program. (3 cr; A-F only) Designing and implementing educational programs for adults: concepts, theories, determining needs, educational objectives, learning experiences, and evaluating outcomes.

AdEd 5401. Adult Learning and Development Through the Life Span. (3 cr; A-F only) Physiological, social, and cultural bases of adult behavior; motivation, socialization, personality change as applied to education of adults.
AdEd 5411. Strategies for Teaching Adults. (3 cr; A-F only)
Identification, classification, and analysis of techniques used in teaching adults.

AdEd 5421. Distance Education. (3 cr)
Theories, history, delivery systems, and present practice. Emphasis on practice in the United States but topics and issues explored from an international perspective.

AdEd 5440. Multidisciplinary Perspectives on Aging.
(4 cr, §CPsy 5305, §HSU 5009, §PA 5414, §PubH 5737, §Soc 5960, §SW 5024; A-F only)
Multidisciplinary introduction to aging and the aging process.

AdEd 5450. Critical Pedagogy. (3 cr, §FE 5450, §VoEd/WCFE 5450; S-N only)
Critical pedagogy in schools and adult education; application to education for family, work, and community.

AdEd 5501. Continuing Education and the Professions. (3 cr; A-F only)
Review of literature; analysis of philosophies, issues, and trends; emphasis on integrating personal growth, professional needs, and statutory requirements in continuing education programs.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

AdEd 8100. Research in Adult Education

AdEd 8302. Problems: Adult Education

AGRICULTURAL EDUCATION (AGED)
WORK, COMMUNITY, AND FAMILY EDUCATION

AgEd 1001. Introduction to Agricultural Education. (1 cr; A-F only)
Orientation to employment and service; qualifications of teachers, survey of preparatory offerings; the program in Minnesota.

AgEd 1002. Principles of Career Planning in Agriculture. (1 cr; A-F only)
Self-assessment and analysis of interests, skills, abilities, values, and life goals. Analysis of various agricultural occupations, employment potential, and demands in relation to employee expectations for work. Industries will be examined using information interviews.

AgEd 1003. Personal Agriculture Career Planning. (1 cr; prereq 1002; A-F only)
Develop personal career plans based on an individual assessment of 13 learner objectives plus various aptitude, value, and personality trait inventories. Individual plans will reflect information obtained in interviews with firms about various occupations.

AgEd 1042. Current Technical Competencies. (3 cr)
Preparing mechanical/technical/technology teachers. Basic competencies in skills and knowledge used in planning, implementing, operating, and maintaining structural and mechanical systems. Experimental learning principles, applied problem solving, observation, practice.

AgEd 3001. Experiential Learning: Production Agriculture. (1-14 cr [max 14, combined 3001, 3002 cr must not exceed 20]; prereq #: S-N only)
Experiential learning in a production agriculture business. Planned, organized, monitored, and evaluated based on a pre-experience diagnosis of learning prerequisite to higher-level courses in technical agriculture.

AgEd 3002. Experiential Learning: Agricultural Business. (1-14 cr [max 14, combined 3001, 3002 cr must not exceed 20]; prereq #: S-N only)
Experiential learning in an agricultural non-farm business. Planned, organized, monitored, and evaluated based on a pre-experience diagnosis of learning required to meet competency expectations for persons employed in agricultural businesses.

AgEd 3029. Directed Experience in Agricultural Education. (1-3 cr; A-F only)
Observing activities of teachers of agriculture; staff, curriculum, and physical facilities and equipment in a department of vocational agriculture; opportunity to teach.

AgEd 3041. Practicum: Agricultural Education Technology. (1-3 cr [max 5]; A-F only)
Individualized study packages of one credit each of technology in agriculture, horticulture, off-farm agriculture, agricultural mechanics, adult and beginning farmer programs, youth organizations, program evaluation, and visual aids.

AgEd 5010. Rural Leadership Development. (3 cr; A-F only)
Understanding role, function, and unique features of leaders in rural communities; importance of personal involvement in leadership roles; personal leadership and vision development for individuals and rural community groups.

AgEd 5023. Methods for Change in Developing Countries. (3 cr, §WCFE 5023; A-F only)
Strategies, programs, projects, and methodologies for individual and community economic and social change.

AgEd 5028. Teaching Methods in Agricultural Education. (5 cr; A-F only)
Methods used in teaching agriculture in public schools; use of media, principles of learning, problem solving, test construction, classroom management, and specific practice in problem-solving teaching techniques; use of competency-based individualized instruction as a medium for course presentation and a model for teaching methods.

AgEd 5032. High School Curriculum in Agriculture. (3 cr; prereq 10 cr ed, ed or grad student; A-F only)
Philosophy, organization, and administration of instruction in agriculture departments in secondary schools.
AgEd 5034. Procedures in Teaching Agriculture. (3 cr; A-F only)
New developments in methodology; assessment of innovations and procedures; consideration of various levels of instruction.

AgEd 5041. Workshop: Agricultural Education Technology. (1-6 cr [max 12])
New understandings, techniques, and materials in animal science, plant science, horticulture, soil science, agricultural mechanics, forestry, natural resources, and youth organization; visual aids, and occupational exploration.

AgEd 5042. Agricultural Mechanics. (1-3 cr [max 12])
Technical and managerial information, techniques, and materials. Designed to facilitate participant's instructional planning, resource development, and instruction. Topic to be identified with each offering.

AgEd 5043. Farm Management. (1-3 cr [max 12])
Application of agricultural economics theory, principles, techniques, and materials. Facilitates participant's instructional planning, resource development, and instruction. Topic to be identified with each offering.

AgEd 5049. Agricultural Education for Adults. (3 cr; A-F only)
Organization and implementation of systematic education programs for beginning and established farmers; organization of local programs to meet needs of production agriculture; administration, organization; visual aids, and occupational exploration.

AgEd 5051. Enterprise Analysis. (3 cr; A-F only)
Analyzing the farm business as a basis for identifying problems; planning learning experiences to improve farm management at the high school, young farmer, and adult levels.

AgEd 5052. Farm Business Management Education. (3 cr; prereq 5049 or #; A-F only)
Administration, organization, and operation of farm business management education programs for adults; development and use of curriculum materials based on farm business record data.

AgEd 5055. Methods in Farming Systems Research and Extension. (3 cr; A-F only)
Methodology for integrating research and extension programs designed to identify and solve farm family system problems using interdisciplinary and holistic approaches.

AgEd 5061. Program Planning and Evaluation. (3 cr; prereq sr or grad student; A-F only)
Developing a program of agricultural education in a community school; integration with total school program; administrative relationships; techniques and use of program evaluation in planning.

AgEd 5071. Supervised Occupational Experiences in Agriculture. (3 cr; A-F only)
Organization and administration of an occupational experience program in agriculture for high schools and area schools.

AgEd 5072. Practicum: Agricultural Business and Industry. (1-3 cr [max 9]; prereq 5071 or #; A-F only)
Observation, study, and experience in agricultural business and industry; application to educational problems in agriculture.

AgEd 5078. FFA Organization and Management. (2 cr; A-F only)
Development of FFA (vocational agribusiness education student organization) knowledge and organization; integration of activities into the curriculum; management of chapter operations.

AgEd 5080. Organization and Management. (3 cr; prereq #; A-F only)
Administrative structure and function of subcollegiate programs.

AgEd 5081. Current Issues for the Beginning Agriculture Teacher. (1-3 cr [max 3]; prereq #; A-F only)
Teaching methods; organizing learning resource materials; managing classroom and laboratory learning activities; curriculum planning and organization; managing discipline situations; school and community relationships for the beginning teacher.

AgEd 5082. Current Issues in Agricultural Education. (1-3 cr [max 9]; prereq #; A-F only)
Emphasizes study and clarification of current issues, strategies of response, implications of response actions, and related leadership roles.

AgEd 5087. Mentorship for Beginning Agriculture Teachers. (6 cr at 2 cr per qtr, continuous regis required in 3 consecutive qtrs; prereq MEd/init lic student, less than 2 yrs exper as ag tchr, ¶5081, #)
One year program of professional development during the induction year of teaching agriculture in the public schools. Emphasis on solving problems, dealing with issues and concerns of new teacher, and making a smooth transition into the teaching profession.

AgEd 5090. Independent Study. (1-3 cr; prereq sr; A-F only)
Topics may be chosen to permit study of areas within education or to supplement areas of inquiry not provided in the regular course structure.

AgEd 5095. Integrating Paper: Master of Education. (3 cr; prereq MEd ag ed student; A-F only)
Preparing a paper dealing with students in agricultural education applied to professional responsibilities.

AgEd 5128. Methods of Teaching. (3 cr; prereq non-ag ed major or #; A-F only)
Methods of teaching agriculture or related subjects; developing competencies in planning, organizing, implementing, and evaluating instruction with practice in instructional techniques.
AgEd 5244. Topics in Program Planning for Extension Education. (1-6 cr [max 9], §FE 5244; A-F only)
Effective extension educational programming in relation to situation and needs analysis; coordination of content, people, methodology; specific aspects in development of program models; managing available resources.

AgEd 5245. Topics in Administering Extension Education. (1-6 cr [max 9], §FE 5245; A-F only)
Issues and current literature; focus on personnel hiring and supervision, financial management, leadership styles, long-range planning; application of theory to administrative practice.

AgEd 5246. Topics in Teaching and Delivering Extension Education. (1-6 cr [max 9], §FE 5246; A-F only)
Teaching techniques involving media, telecommunications, computers, group process methods, experiential learning in extension education settings.

AgEd 5247. Topics in Evaluating Extension Education. (1-6 cr [max 9], §FE 5247; A-F only)
Overall evaluation design; issues in choosing quantitative vs. qualitative evaluation methods; developing skills and conceptual frameworks to apply theory to extension settings.

**FOR GRADUATE STUDENTS ONLY**
(For description, see Graduate School Bulletin)

AgEd 8001. Research in Agricultural Education

AgEd 8020. Seminar: Agricultural Education

AgEd 8091. Field Problems

AgEd 8303. Seminar: Graduate Studies Review

**BUSINESS AND INDUSTRY EDUCATION (BIE)**

**WORK, COMMUNITY, AND FAMILY EDUCATION**

BIE 1100. Technical Drawing. (3 cr; A-F only)
Overview of technical drawing principles and applications of business and industry; laboratory experience in mechanical and PC-CAD production of working drawings.

BIE 1101. Technical Design and Product Development. (3 cr; A-F only)
Introduction to principles and concepts of industrial research and development; laboratory experience in technical illustration, design methodology, and product development; environmental, societal, and entrepreneurial issues.

BIE 1110. Introduction to Production Systems. (4 cr; A-F only)
Introduction to principles, methods, materials, and processes of industrial production. Laboratory experience in producing, processing, and testing industrial materials and products.

BIE 1120. Communication Technology. (3 cr; A-F only)
Instruction and laboratory experience in communication technology, including photography, video, wire communication, recording and storage systems, printing, and computer applications to communication.

BIE 1130. Principles of Energy and Power. (4 cr; A-F only)
Instruction and laboratory investigations in fundamentals of mechanical, fluid, and electrical power.

BIE 1301. Introduction to Vocational-Technical Teaching. (3 cr; A-F only)
Techniques for the occupationally certifiable individual who plans to enter the field of vocational teaching; required for initial state vocational licensure.

BIE 1302. Supervised Vocational-Technical Teaching. (3 cr; prereq #; S-N only)
Supervised teaching on the job for beginning teachers.

BIE 3060. Professional Sales Management. (3 cr, §BME 3260, §BME 5260; A-F only)
Acquire higher-order selling competencies reflecting client-centered and problem-solving abilities.

BIE 3111. Manufacturing. (3 cr; A-F only)
Manufacturing concepts, principles, and applications; instruction and laboratory experience in automated manufacturing, including computer-integrated manufacturing and robotics; design, operation, and management of manufacturing systems and products.

BIE 3112. Construction. (3 cr; prereq 1110; A-F only)
Introduction to principles, concepts, and techniques in civil, commercial, and residential construction. Laboratory experience in planning, designing, organizing, producing, and testing structures.

BIE 3121. Graphic Communication. (3 cr; A-F only)
Instruction and lab experience surveying graphic communication/printing technology, including layout and design, typography, process camera, halftones, four-color process, computer graphics, electronic publishing, and image transfer via offset, lithography, and screen printing.

BIE 3131. Industrial Power Systems. (3 cr; prereq 1130; A-F only)
Instruction in and laboratory investigation of applying and controlling mechanical, fluid, and electrical power in commercial and industrial settings.

BIE 3132. Industrial Electronics. (3 cr; prereq 1130; A-F only)
Instruction in and laboratory investigation of electronics as found in residential, commercial, and industrial settings.

BIE 3140. Transportation Systems. (3 cr; A-F only)
Instruction in and laboratory investigation of transporting people, material, and energy.
BIE 3150. Technical Development: Advanced. (1-12 cr [max 18]; prereq #: A-F only)
Individualized advanced technical development in construction, communication technology, manufacturing, power and energy, and transportation.

BIE 3900. Independent Study. (1-6 cr per qtr, prereq #)
Self-directed study preceded by classroom instruction in basic research procedures.

BIE 5002. Teaching Promotion Display. (3 cr; A-F only)
Materials and methods for teaching visual merchandising, sales promotion, advertising, public relations, and promotion planning.

BIE 5010. Introduction to Microcomputer Applications in Business and Industry Education. (3 cr; A-F only)
Instructional uses of microcomputers; representative business and marketing education applications, including word processing, databases, spreadsheets, and graphics.

BIE 5015. Advanced Word Processing Practicum. (3 cr; A-F only)
Completion of projects using advanced editing and printing capabilities.

BIE 5020. Spreadsheet Analysis Using Microcomputers in Business and Industry Education. (3 cr; prereq 5010 or equiv; A-F only)
Using spreadsheet software; instructional applications in business.

BIE 5025. Teaching Microcomputer Graphics in Business and Industry. (3 cr; prereq 5010 or equiv; A-F only)
Representative microcomputer-based business graphics software packages; use for making instructional presentations; use of simulated projects to teach applications in business and industry classrooms.

BIE 5030. Database Microcomputer Applications. (3 cr; prereq 5010 or equiv; A-F only)
Using database software; instructional applications in business.

BIE 5035. Teaching Desktop Publishing. (3 cr; prereq 5010 or equiv)
Strategies for teaching page layout and design, creating text and graphics, merging files, printing, and equipment and software requirements.

BIE 5040. Integrated Microcomputer Applications in Business and Industry Education. (3 cr; prereq 5010, 5015, 5020, 5025, 5030 or equiv; A-F only)
Advanced business and industry computer applications integrating business and word processing, spreadsheets, business graphics, and database software.

BIE 5080. Special Topics in Technical Updating. (1-6 cr)
Update of technological change and technical content in business and industry education. Topics vary with each offering.

BIE 5123. Special Topics in Communication. (1-6 cr; A-F only)
Topics not covered by available courses.

BIE 5133. Special Topics in Power and Energy. (1-6 cr; A-F only)
Topics not covered by available courses.

BIE 5143. Special Topics in Transportation. (1-6 cr; A-F only)
Topics not covered by available courses.

BIE 5150. Technical Development: Specialized. (1-12 cr [max 18]; prereq #: A-F only)
Integrating specialized technical instruction in advanced and emerging areas into industrial education courses.

BIE 5253. Supervisory Training. (3 cr, §HRD 5253; prereq VoEd/WCFE 5340; A-F only)
Problems, practices, programs, issues, and methodologies related to preparing supervisor trainers.

BIE 5261. Sales Training. (3 cr, §HRD 5261; A-F only)
Strategies and techniques for developing effective sales people.

BIE 5262. Customer Service Training. (3 cr, §HRD 5262; A-F only)
Overview of customer service strategies used by successful organizations and training practices used to develop customer-oriented personnel.

BIE 5300. Organizational Needs Assessment. (3 cr, §HRD 5300; A-F only)
Identification of organizational performance problems, problem causes, and recommended training solutions and other interventions to improve performance in business, industry, and schools.

BIE 5301. Student and Trainee Evaluation Systems. (3 cr, §HRD 5301; A-F only)
Test development; performance and learning evaluation; affective evaluation; learning progress reporting systems.

BIE 5303. Instructional Aids. (3 cr; prereq ed or grad student; A-F only)
Planning, constructing, and using instructional aids.

BIE 5320. Vocational Guidance. (3 cr; A-F only)
Self-assessment, use of occupational and labor market information, job-seeking skills, work and work satisfaction. For industrial teachers and trainers in school and industrial settings.

BIE 5325. Foundations of Industrial Education. (3 cr; A-F only)
History, objectives, development, and current practices of the field.

BIE 5344. Facilities and Management. (3 cr; prereq 1300 or 5630 or #: A-F only)
Planning, evaluating, and managing industrial education shop and lab facilities.
BIE 5365. Curriculum Development in Technology Education. (4 cr; A-F only)
The nature of technical knowledge; differing conceptions of technology: the structure of thinking in science and technology; alternative ways of conceptualizing, developing, delivering, and managing technology curricula.

BIE 5366. Management Development Practices. (4 cr, $HRD 5366; prereq principles of mgmt or supervision course or #)
Problems, practices, programs, and methodologies related to training and developing managers, including needs assessment, delivery modes, and evaluation. Site visits and critiques.

BIE 5400. Introduction to Business and Marketing Education. (4 cr)
Conceptual models of marketing and business education useful in designing and delivering programs in secondary and postsecondary schools, adult education settings, and business and industry.

BIE 5440. Business Observation and Seminar. (3-9 cr; A-F only)
Current operating practices and career opportunities in business and industry combining planned experiences in work environments and related seminars.

BIE 5452. Methods of Teaching Business Concepts. (4 cr; A-F only)
Recent research and developments in teaching concepts related to economics, business organization and management, business law, entrepreneurship, marketing, international business, information systems, accounting, risk management, and personal finance.

BIE 5453. Consumer Education: Curriculum, Methods, and Materials. (3-4 cr, $FE 5153; A-F only)
Objectives, content, curricular organization, teaching methods, materials, and evaluation methods for the elementary, secondary, postsecondary, and adult levels.

BIE 5457. Methods of Teaching for Business Employment. (4 cr; A-F only)
Recent research and developments in training persons for administrative support positions, accounting and information processing, sales and marketing, computer operations, and other occupations in which desktop publishing is a major employment responsibility.

BIE 5462. Research and Methods in Teaching Accounting and Data Processing. (4 cr; A-F only)
Applying current research findings to teaching methodology and curriculum and materials development; computerized accounting applications.

BIE 5463. Teaching Keyboarding and Word Processing. (3 cr)
Effective teaching strategies; expected learner outcomes; evaluation methods; criteria for selecting hardware and software; managing and organizing computer labs.

BIE 5485. Business and Industry Education Workshop. (1-6 cr; prereq tchg exper, #; A-F only)
Areas of concentration vary with each offering.

BIE 5490. Special Topics in Instruction. (1-6 cr)
Planning and providing content, evaluating instruction. Topics vary with each offering.

BIE 5495. Special Topics in Curriculum. (1-6 cr)
Content development and evaluation of curriculum and curriculum materials. Topics vary with each offering.

BIE 5500. Occupational Experience. (1-5 cr [max 15]; prereq #; S-N only)
Observation and employment in business and industry focused on developing technical or occupational competencies; 100 clock hours of supervised work experience per credit.

BIE 5510. Internship: Business and Industry Education. (1-12 cr [max 12]; S-N only)
Practical experience in a business or industry professional educator or supervisory role, culminating in an integrative paper.

BIE 5605. Critical Issues. (3 cr; prereq ed major or grad; A-F only)
Identification, analysis, and discussion of major current problems in the field.

BIE 5630. Course Development. (3 cr, $HRD 5630; A-F only)
Identifying content, stating objectives, sequencing, planning lessons, and selecting methods and media for instruction.

BIE 5660. Instructional Methods. (3 cr, $HRD 5660; A-F only)
Implementing instructional strategies and methods.

BIE 5700. Field-Based Projects. (1-6 cr [max 12], prereq #; S-N only)
Curricular, instructional, developmental, or evaluative problems and projects applicable to local school or business and industry situations.

BIE 5752. Technical Skills Training. (4 cr, $HRD 5752; A-F only)
Analysis of technical skills training practices in business and industry. Systems and process analysis and troubleshooting work behavior; design methods and developing training materials.

BIE 5900. Directed Study. (1-6 cr [max 12]; prereq #; S-N only)
In-depth individual learning or supplementation of areas not covered by regular courses.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

BIE 8900. Research Problems: Business and Industry
**CHILD PSYCHOLOGY (CPSY)**

**CPsy 1301. Introductory Child Psychology.** (4 cr, §3309, §5301; prereq 5 cr intro psych)
Introduction to the science of child behavior; review of theories and research.

**CPsy 3308. Research Methods in Child Psychology.** (4 cr; prereq 1301, Psy 1001; A-F only)
Techniques used in study of child development; emphasis on collection, organization, and analysis of data.

**CPsy 3309. Introductory Child Psychology for the Social Sciences.** (4 cr, §1301, §5301; prereq Psy 1001)
Science of child behavior; review of theory and research. For majors in psychology, sociology, and related disciplines; not suggested for child psychology majors.

**CPsy 3313. Psychology of Atypical Children.** (4 cr, §5313; prereq 1301 or equiv)
Problems of research, assessment, and behavior associated with atypicality; evaluation of research in areas of major concern for sensory, language, intellectual, and physical deviation.

**CPsy 3330. Directed Experiences.** (4 cr; prereq 1301 or equiv; A-F only)
Intellectual and/or social development of children, adolescents, or adults as individuals, members of families, or peer groups. Options include active participation with an age group or training in research methods, including both experimental and observational techniques.

**CPsy 3331. Introduction to Social Development.** (4 cr, §5331; prereq 1301 or equiv)
Development of social relations and personality: research, methodology, and contrasting theoretical perspectives. Survey of findings on interpersonal relationships, the concept of self, prosocial and antisocial behavior, and acquisition of social roles.

**CPsy 3343. Introduction to Cognitive Development.** (4 cr; prereq 1301 or #) H Pick, Sera
Development of cognitive processes emphasizing research, methodology, and contrasting theoretical perspectives. Introduction to research and theory in developmental psychology necessary to understand course material.

**CPsy 3360H. Honors Seminar: Current Research in Developmental Psychology.** (2 cr; prereq 1301 or equiv; S-N only) A Pick
Honors seminar focused on current research in developmental psychology.

**CPsy 3960. Senior Project in Child Psychology.** (2 cr per qtr [max 4], 2-qtr regis required for credit; 1301, sr status, #; A-F only)
Major review of the literature in a current topic area of child psychology.

**CPsy 3980. Directed Instruction.** (1-4 cr [max 4]; prereq #; S-N only)
Undergraduates serve as teaching assistants in courses they have successfully completed for credit.

**CPsy 5302. Infancy.** (4 cr; prereq 1301 or #) Nelson, Yonas
Perceptual, motor, emotional, social, and cognitive development during the first two years of life; the developing infant in its social and physical environment.

**CPsy 5303. Adolescent Psychology.** (4 cr, §3303; prereq 5 cr intro psych) Egeland, Masten
Physical, cognitive, and social development during adolescence.

**CPsy 5305. Multidisciplinary Perspectives on Aging.** (4 cr, §AdEd 5440, §HSU 5008, §Nurs 5780, §PA 5414, §Phar 5009, §PubH 5520, §PubH 5737, §SW 5024, §Soc 5960)
Multidisciplinary introduction to aging and the aging process.

**CPsy 5310. Topics in Child Psychology.** (1-4 cr; prereq 1301)
Selected topics in the general content area.

**CPsy 5311. Introduction to Developmental Psychopathology.** (4 cr, §3311; prereq 1301 or equiv, 3308 or Psy 1005) Egeland, Masten, Sroufe
Theories and research strategies for investigating origins and course of disordered behavior in children and adults, including description, etiology, and development.

**CPsy 5313. Psychology of Atypical Children.** (4 cr, §3313; prereq 1301 or equiv)
See 3311.

**CPsy 5315. Introduction to Mental Retardation.** (4 cr, §EPsy 5620; prereq 1301 or equiv) Turnure
Psychological and educational problems related to the mentally retarded.

**CPsy 5315. Introduction to Mental Retardation.** (4 cr, §EPsy 5620; prereq 1301 or equiv) Turnure
Psychological and educational problems related to the mentally retarded.

**CPsy 5319. Introduction to Clinical Child Psychology.** (4 cr; prereq 12 cr in psych, ed psych, sociology, or child psych) Masten
Survey of assessment and intervention procedures of child clinical psychology in clinical and community settings. Primarily for students not majoring in clinical psychology.

**CPsy 5322. Motor Development.** (3 cr, §Kin 5132; prereq Kin 3132 or #: A-F only) Wade
Developmental aspects of motor skill acquisition from birth to physical maturity.

**CPsy 5329. Genetics, Ethology, and Development.** (4 cr; prereq 1301 or equiv) Maratos
Survey of evolutionary theory, behavioral genetics applied to understanding of development of human behavior; formation of species-typical adaptive behavior and individual differences in infancy, childhood, adolescence.
CPsy 5330. Directed Experiences With Children. (4 cr; prereq 1301, #; A-F only)
Intellectual and/or social development of children as individuals or members of peer groups. Experiences offered in case study, social behavior, cognitive stimulation of children.

CPsy 5331. Processes of Social Development. (4 cr, §3331; prereq 1301 or equiv) Collins, Hartup
Processes of individual change from infancy through adolescence and development of capacities for and influences of social relations; research, methodology, theoretical perspectives.

CPsy 5332. Cross-Cultural Child Development. (4 cr; prereq 4 cr child psych)
Interdisciplinary cross-cultural survey of theories and research on similarities and differences in cognitive, perceptual, socioemotional, and personality development, with emphasis on child-caretaker relations and Asian and Hispanic cultures.

CPsy 5334. Children and Youth in Society. (4 cr; prereq 4 cr child psych)
Child development principles relative to social policy decision making; application of theories and findings to such issues as media influences, mainstreaming, day care, child abuse, and effects of peers.

CPsy 5336. Development and Interpersonal Relations. (4 cr, §5339; prereq 1301 or equiv; 3308 or Psy 1005, 3331 or 5331) Collins, Hartup
Processes and functions of interactions with parents and peers; analysis of theory and research on developmental changes and influences.

CPsy 5341. Perceptual Development. (4 cr; prereq 1301 or #, 3308 or Psy 1005) H Pick, Yonas
Perceptual learning and the development of sensory and perceptual processes.

CPsy 5343. Cognitive Development. (4 cr; prereq 3343, 3308 or Psy 1005) Bauer, A Pick, H Pick, Sera
Development of cognitive processes; discussion of relevant theory, research literature, and methodology.

CPsy 5345. Language Development. (4 cr; prereq 1301 or #, 3308 or Psy 1005) Maratos
Development of structure and function of language; factors influencing development; methodological problems, language scales, theories.

CPsy 5349. Children's Learning and Intellectual Skills. (4 cr; prereq 1301, 3343 or #)
Current research on learning, problem solving, intellectual performance in children; practical applications.

CPsy 5353. Development During the School Years. (4 cr; prereq 4 cr psych) Thomas
Principles of psychological development emphasizing ages 5-18. Developmental psychology theory and research relevant to individual growth and achievement; issues in applying a developmental perspective to topics in child and adolescent development (e.g., fostering learning, risk of school failure, behavioral and emotional problems, diversity).

CPsy 5970. Directed Study in Child Psychology. (Cr ar; prereq #)
Independent reading.

CPsy 5990. Directed Research in Child Psychology. (Cr ar; prereq #)
Individual empirical investigation.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

CPsy 8301. Developmental Psychology: Biological Processes
CPsy 8302. Developmental Psychology: Cognitive Processes
CPsy 8303. Developmental Psychology: Social and Emotional Processes
CPsy 8304. Research Methods in Child Psychology
CPsy 8310. Seminar: History of Child Development
CPsy 8320. Seminar: Current Issues in Teaching Developmental Psychology
CPsy 8330. Directed Field Experiences
CPsy 8360. Seminar: Developmental Psychology
CPsy 8606. New Approaches to Psychopathology in Children and Adolescents
CPsy 8666. Doctoral Pre-Thesis Credits
CPsy 8777. Thesis Credits: Master's
CPsy 8888. Thesis Credits: Doctoral
CPsy 8970. Independent Study
CPsy 8980. Research Seminar
CPsy 8990. Research Problems

CURRICULUM AND INSTRUCTION (CI)
See also mathematics education (MthE).

CI 1000. Schooling, Learning, and Society. (4 cr; A-F only)
 Purposes, curriculum teaching and learning processes, and organizational structure of U.S. schools.

CI 3001. Survey of Art Activities. (4 cr, §ArEd 3001; non-art ed major; A-F only)
Introduction to pictorial expression, design, and the function of art in the social environment.
CI 3045. Contemporary Crafts. (4 cr, §ArEd 3020; A-F only) Materials, equipment, design criteria, and techniques for working in two or three dimensions with a variety of media (wood, metal, textile, ceramics).

CI 3180. Practicum: Curriculum and Instruction. (1 or 2 cr [max 6], §Elem 3621; prereq elem ed major; S-N only) Supervised observation of and participation in classroom and related school activities; a pre-student teacher exploratory experience.

CI 3192. Directed Study. (1-9 cr, §SeEd 3151; prereq Δ) Analysis of specific instructional, curricular, organizational, and operational situations or problems in education.

CI 3230. Nursery School-Kindergarten Curriculum. (3 cr, §Elem 3376) Objectives of the kindergarten; use of literature; appropriate creative activities in the areas of art, dramatics, music; planning of learning activities.

CI 3280. Student Teaching in the Kindergarten. (6 cr, §Elem 3603; prereq 6 cr elem student tchg, Δ; S-N only) Five half-days each week in supervised teaching and observation in public or private schools.

CI 3400. Children's Literature. (3 cr, §Elem 3300; A-F only) Materials for children's reading in the elementary school program.

CI 3680. Student Teaching in Second Languages and Cultures. (3 cr, §SeEd 3631; prereq #: S-N only)

CI 5008. Theory and Practice of Teaching Art in Elementary Schools. (2-4 cr, §ArEd 5308; A-F only) Art concepts, skills, and processes appropriate for elementary school; methods of art instruction, and children's production of and responses to art.

CI 5045. Advanced Contemporary Crafts. (4 cr, §ArEd 5020; prereq 3045 or ArEd 3020 or #: A-F only) In-depth experiences in craft techniques, including ceramics, fibers, jewelry, and metal design with emphasis on design analysis, understanding of materials, and mastery of processes.

CI 5049. Art Media Techniques. (3-6 cr [max 12], §ArEd 5001; A-F only) Lectures, demonstrations, and critique sessions on creative processes; handling specific media. Topic varies.

CI 5052. Introduction to Art Therapy. (3 cr, §ArEd 5201; A-F only) History, current conceptions, and practices of art therapy.

CI 5055. Multicultural Art Education. (4 cr, §ArEd 5316; A-F only) Arts of diverse peoples; alternative conceptions of artistic tradition, value, and production; significance of cultural context to curriculum and teaching.

CI 5058. Issues in Art Education. (1-12 cr, §ArEd 3800; A-F only) Issues and trends, current practices, recent research.

CI 5065. Improving Art Programs in the Schools. (4 cr, §ArEd 5386; prereq tchg exper or #: offered when feasible) Critical examination of present art programs in the schools.

CI 5069. Curriculum Innovations in Art Education. (4 cr, §ArEd 5302; A-F only) Study and analysis of innovations; evaluation of materials for teaching units and projects.

CI 5070. History of American Art Education. (3 cr, §ArEd 5310; A-F only; offered odd yrs) Development of art as subject matter in curriculum; relation to traditions in art and in schooling; comparison of change within social, political, and economic contexts.

CI 5074. Visual Culture, Education, and Global Development. (4 cr, §ArEd 5318; A-F only) Postmodern uses of art; popular and mass media imagery in international education and global development.

CI 5078. Application of Aesthetic Theory in Education. (3 cr, §ArEd 5389; A-F only) Contemporary theories of art; their psychological and philosophical foundations. Open to teachers, supervisors, and administrators concerned with art in general education at all levels.

CI 5080. Internship: Art Education. (2-9 cr, §ArEd 5600; prereq #) Professional assignment for degree candidates under joint supervision of departments and cooperating agency.

CI 5085. Practicum: Art Education. (2-9 cr, §ArEd 5605; prereq #) Independent project under direction; gathering data, developing proposals, experimenting with evaluating innovative practices.

CI 5086. Student Teaching in Art Education. (3, 6, or 12 cr, §ArEd 3600; prereq 5150, 5110 or Elem 3101 or SeEd 3150; S-N only) Observing, participating, and supervising experiences with various types and levels of art classes.

CI 5101. Workshop: Programs and Procedures of Curriculum Development in Elementary Schools. (1-3 cr, §Elem 5101; prereq elem tchg exper, #: S-N only) Leadership in procedures; operational processes; major considerations in planning and organizing; interpersonal relationships; evaluation of improvement programs.

CI 5110. Introduction to Elementary School Teaching. (3 cr, §Elem 3101, §Elem 5000; prereq 5183, elem ed major or CLA music ed major or Ψ) Introduction to the elementary school; curriculum, organization, instruction, management, and professional decision making.
CI 5113. Classroom Management in the Elementary School. (4 cr, §Elem 5145, §SeEd 5145; prereq tchg or admin exper or #) For teachers, administrators, and support staff. Management of and instruction as it relates to student behavior, teacher organizational tasks in the classroom.

CI 5130. Introduction to Curriculum Studies. (4 cr, §CI Sy 5600; A-F only) Exploring and assessing definitions of curriculum; historical and current issues; curriculum principles and theories; alternative models and methods of design and evaluation.

CI 5133. Curriculum Planning and Design. (4 cr, §CISy 5605; A-F only) Theoretical and practical bases of interdisciplinary curriculum design; models for developing interdisciplinary approaches to curriculum design and implementation; evaluating interdisciplinary curricula.

CI 5136. History of Curriculum in U.S. Public Schools. (4 cr, §CISy 5607, §EdPa 5207; A-F only) Formation of public school subjects and curriculum theory in the United States from European roots and early development in 19th century to contemporary issues of reform; social, political, and economic implications of curriculum history.


CI 5138. Multicultural and Moral Perspectives on Classroom Instruction. (4 cr; MEd or grad student or #) Factors leading to effective communication in the ethnically diverse classroom, preschool through adult. Communication techniques and classroom structures that have cultural and moral implications.

CI 5145. Curriculum Topics. (1-4 cr [max 6], §CISy 5100) Special topics and current trends in curriculum; issues of subject integration, curriculum contexts, development, implementation, and evaluation.

CI 5149. America's Schools in the 20th Century. (3 cr, §CISy 5370, §EdPa 5370; prereq ed or grad student or #; A-F only) Analysis and interpretation of events and issues that have shaped America's schools in the 20th century; current proposals for education reform and their antecedents.

CI 5150. Secondary School Teaching. (3 cr, §SeEd 5250; prereq ed or CLA music ed student or #, §5185 or regis in an approved area practicum) Teaching in the secondary school; curricular, instructional, managerial, leadership, and professional functions.

CI 5153. Thematic Instruction for Middle Grades. (2 cr, §AdEd 5191, §Educ 5191, §Elem 5191, §SeEd 5291) Logical and contextual relationships among mathematics, science, and social studies as taught in middle grades.

CI 5155. Classroom Instruction and Assessment. (4 cr, §CISy 5902; prereq MEd or grad student) Identifying goals, selecting instructional strategies, and developing assessment procedures for K-12 students. Incorporates issues related to multicultural education and reflective teaching.

CI 5156. Techniques of Instruction. (3 cr, §SeEd 5132) Cross-departmental course. Develop individual competencies, apply current psychological research to classroom instruction, define objectives in terms of achievable student competencies.

CI 5160. Supervision of Elementary, Secondary, and Postsecondary Instruction. (3 cr, §CISy 5800; prereq 5130 or CISy 5600; A-F only) Achievement of appropriate teaching expectations focusing on problems of personnel responsible for their improvement.

CI 5162. Peer Coaching for Teachers. (1-3 cr, §CISy 5801; prereq MEd or grad student; A-F only) Teachers coaching teachers; acquiring concepts, skills, and dispositions necessary for observing classroom instruction and providing constructive feedback.

CI 5170. Classroom Management in the Secondary School. (3 cr, §SeEd 5145, §Elem 5145) For teachers, administrators, and support staff working in secondary school programs: focus on management of student behavior, of instruction as it relates to student behavior, and of teacher organizational tasks in the classroom.

CI 5172. Teaching Students With Learning Difficulties. (3 cr, §Elem 5107; A-F only) Diagnosis of pupil difficulty; development and prevention; tests as aids to teaching; following up a testing program; socioemotional problems associated with learning difficulties.

CI 5178. Project in Teacher Leadership. (1-9 cr, §EdPa 5178; prereq grad or #) Create and present a leadership project designed to instigate or promote change within education.

CI 5180. Clinical Experience in Elementary School Teaching. (6-12 cr, §Elem 5212) Supervised classroom teaching in an elementary school.

CI 5183. Applying Instructional Methods in the Elementary School. (2 cr each offering [max 4 cr], §Elem 5211) Supervised experience in elementary school classrooms.

CI 5184. Pre-Fall Student Teaching in Elementary Schools. (3 cr, §Elem 3610; prereq 9 cr methods, A) Observing and teaching during the beginning of the school year; begins with fall semester opening of public schools and continues until University classes begin.
CI 5185. Orientation in the Secondary Schools. (0-2 cr; §SeEd 5251; prereq §5150) Supervised observation in classroom and related school activities.

CI 5186. School-Related Projects in Curriculum and Instruction. (1-12 cr [max 12], §5090, §5480, §5583, §5669, §5764; prereq MEd CI student or #) Individual or group work on curricular, instructional, or evaluation problems and projects applicable to school situations.

CI 5187. Practicum: Improvement of Teaching in Elementary or Prekindergarten Schools. (4 cr, §Elem 5602; prereq MEd student in elem ed or early childhood ed; S-N only) Elementary school classroom teaching project designed to improve specific teaching skills, planned by student and approved and directed by student's adviser as part of M.Ed. program.

CI 5190. Directed Individual Study in Curriculum and Instruction. (1-6 cr [max 6], §CI Sy 5509; prereq #) Produce and evaluate curricular materials, review and analyze literature concerning particular issues and problems, assess curriculum processes.

CI 5195. Directed Study in Elementary and Secondary Education. (Cr ar [max 6], §SeEd 5351; prereq ed or grad student) Individual or group work on curricular, instructional, or evaluation problems.

CI 5250. Current Trends in Early Childhood Education. (4 cr, §Elem 5376; prereq kindergarten or primary tchg exp or #) Continuing needs of children in our changing culture; current practices and recent research; curriculum assessment techniques and evaluation of education materials.

CI 5252. Contemporary Programs for Young Children. (3 cr, §Elem 5378; prereq early childhood ed MEd student) Growth and development of preschool children in light of need for curriculum intervention programs; current trends, program evaluation, recent research.

CI 5253. Cognitive and Creative Learning in Early Childhood Education. (3 cr, §Elem 3379; prereq CPsy 1301 or CPsy 5301; A-F only) Developmental approach to planning cognitive, language, and creative curriculum.

CI 5280. Student Teaching in the Kindergarten. (3-6 cr; prereq 5250, 6 cr elem student tchg or current elem lic; S-N only) Five half-days each week in supervised teaching and observing in public or private kindergartens.

CI 5281. Student Teaching in the Nursery School. (3-6 cr, §Elem 3604; prereq approval of major adviser and director of student tchg; S-N only) Three to five half-days each week in supervised teaching in the nursery school.

CI 5300. Technology for Teaching and Learning. (2 cr; A-F only) How technology can be used to access and create educational materials. Use diverse educational technologies to communicate with other users, access and sort electronic databases, create multimedia documents, and publish on the Internet.

CI 5310. Microcomputer Uses in Elementary Classrooms. (3 cr, §CI Sy 5206, §Elem 5140; A-F only) Using microcomputers to enhance instruction across the curriculum.

CI 5331. Instructional Systems: Trends and Issues. (1-3 cr [max 9]; A-F only) Current trends and issues in instructional systems and educational technology.

CI 5335. Introduction to Instructional Systems and Technology. (4 cr, §CI Sy 5151; A-F only) Historical foundations, contemporary issues, and research base of instructional systems.

CI 5337. Principles and Procedures in Designing Instruction. (4 cr, §CI Sy 5209; A-F only) Major models of instructional development; generic components; design models; review of instructional design and learning environments.

CI 5351. Topics: Computer-Based Tools for Teachers. (1-4 cr, §CI Sy 5208) Using technology for material generation, record keeping, and classroom management tasks in K-12 classrooms.

CI 5355. Introductory Educational Technology Methods. (4 cr, §CI Sy 5080) Introduction to educational technology (hardware and software) systems. Techniques for evaluating and selecting hardware and software to meet instructional needs. Strategies and techniques for integrating educational technology to meet curricular goals and objectives.

CI 5356. Advanced Education Technology Methods. (1-6 cr, 3 cr applied to MA, PhD, §CI Sy 5090; prereq 5355 or 5360 or CI Sy 5003 or CI Sy 5080 or #; S-N only) Selecting hardware and software; integrating technology into a variety of curricular areas; developing and implementing plans for integrating technology into classroom instruction.

CI 5360. Teaching via the Internet. (4 cr; A-F only) How the Internet can be used to access and publish educational materials. Creating multimedia documents and publishing on the World Wide Web.

CI 5362. Introduction to Computer-Based Instructional Design. (4 cr; A-F only) Mathematics or science background not required.

CI 5363. Computer-Based Instruction: Introduction to Design. (3 cr, §CI Sy 5205; prereq 5362 or CI Sy 5006 or #; A-F only) Computer uses in education and training; models for designing computer-based instruction with particular emphasis on interface design.
CI 5364. Computer-Based Instruction: Design and Development. (4 cr, §CISy 5212; prereq 5362 or CISy 5205 or #; A-F only)
Advanced principles and research in computer-based design and development.

CI 5367. Interactive Multimedia Instruction. (4 cr, §CISy 5207; prereq 5337 or 5363 or #; A-F only)
Multimedia technologies; design and development of interactive instruction.

CI 5400. Survey of Children's Literature. (3 cr, §Elem 5210; prereq ed student or #; A-F only)
Techniques of and materials for teaching with children's literature in the elementary school.

CI 5401. Literature for the Elementary School. (4 cr, §Elem 5300; A-F only)
Evaluative survey of books for children; research related to children's reading interests; selection of literature.

CI 5402. Survey of Special Collections in Children's Literature. (3 cr, §Elem 5305; prereq 5401 or #; A-F only)
Content and accessibility of collections that relate to the creation of books; emphasis on possibilities and methods for interpreting the content of the collections to children.

CI 5403. Creative Writing for and by Children. (3 cr [max 6], §Elem 5318; prereq 3400 or 3420 or Elem 3300 or Elem 3316 or elem tchg exper or #; S-N only)
Language arts in the elementary school for experienced teachers, supervisors, graduate students, and college instructors; emphasis on creative aspects of the writing of children's literature and children's own writing.

CI 5410. Teaching Reading in the Elementary School. (3 cr, §Elem 5331; prereq 9 cr ed; A-F only)
Elementary school reading programs from the perspectives of historical change, language research, and sociocultural demographics.

CI 5411. Reading Difficulties: Assessment and Instruction. (4 cr, §Elem 5334; prereq 5410 or 5450; A-F only)
Causes, prevention, and correction; remedial practices useful to the classroom teacher, school counselor, and reading specialist.

CI 5413. Teaching Students With Reading Difficulties. (4 cr, §Elem 5336; prereq 5172 or 5411 or Elem 5334 or Elem 5107, #; A-F only)
Assessment and tutoring of individual children who have difficulty learning in school.

CI 5414. Literacy Development in the Primary Grades. (4 cr, §Elem 5337; prereq 5410 or elem tchg exper or #; A-F only)
Theory and practice of integrated teaching of reading, literature, writing, and language.

CI 5415. Literacy Development in the Intermediate Grades. (4 cr, §Elem 5338; prereq 3410 or elem tchg exper or #; A-F only)
Theory and practice of integrated teaching of reading, literature, writing, and language.

CI 5416. Workshop: Curriculum Implementation in Elementary School Reading. (1-9 cr [max 9], §Elem 5339; prereq elem tchg exper or #)
Analysis of new instructional materials, techniques, recent trends, and innovations in elementary reading instruction.

CI 5418. Whole Language in the Elementary School. (4 cr; prereq ed or grad student)
Philosophy and practices of whole language teaching. Meaning-based integration of reading/writing; learner support; noncompetitive environments; locus of control; performance-based assessment, including miscue analysis; theoretical, social, and political implications.

CI 5420. Teaching Writing in the Elementary School. (4 cr, §Elem 5315; prereq MEd/init lic or grad student)
Theory of and research on the writing process; applications to developing an elementary school writing curriculum.

CI 5425. Teaching Language Arts in the Elementary School. (3 cr, §Elem 5316; prereq 3420 or elem tchg exper; A-F only)
Improvement of instruction; study of trends in English education.

CI 5440. Teaching Literature in Secondary Schools. (4 cr, §SeEd 5321; A-F only)
Current theory and methods of instruction; research and response to literature and readings; adolescent literature; growth assessment; curriculum design and evaluation.

CI 5441. Literature for Adolescents. (3 cr, §SeEd 5320; A-F only)
Reading and analysis of fiction and nonfiction; methods for critically assessing quality and appeal; appropriate for secondary English and social studies teachers and librarians.

CI 5450. Teaching Reading in Content Areas. (4 cr, §SeEd 5344; A-F only)
Methods of accommodating student abilities and facilitating reading in regular content classes.

CI 5451. Secondary Remedial Reading Instruction. (4 cr, §SeEd 5175; prereq 5410 or 5450; A-F only)
Principles and techniques for developing and conducting programs for secondary students seriously deficient in reading skills and methods of assessing these students' proficiency and progress.

CI 5460. Teaching Writing in Secondary School and College. (4 cr, §SeEd 5322; A-F only)
Historical and contemporary context; analysis of composing processes; prewriting and revision; audience analysis; comprehension and coherence; selected problems in assigning and evaluating writing.
CI 5461. Diagnosing and Assessing Writing in Secondary Schools. (3 cr, §SeEd 5323; prereq ed jr or sr or grad; A-F only)
Application of theory and research on composition instruction to analysis of diagnosis of writing samples; evaluation of writing using written or conference feedback; large group writing assessment using different rating scales; development of assignments and curriculum materials for writing instruction.

CI 5470. Classroom Research in Literary Education. (3 cr, §SeEd 5176; A-F only)
Review and analysis of current studies; design and analyses for school-based research.

CI 5472. Teaching Film, Television, and Media Studies. (3 cr, §SeEd 5326; A-F only)
Current theory and methods of teaching critical response to film, television, and media; techniques of film/video production, genres; methods of analyzing cultural roles in media; integration and use of short films and videos with English and social studies instruction.

CI 5473. Language, Cultures, and Education. (4 cr, §SeEd 5404, §Spch 5404; A-F only)
Psychological and social-psychological perspectives for the study of language-communication; dimensions of language variation (dialects, codes, registers); implications for program development and instructional practices.

CI 5485. Directed Experiences in Teaching English. (6-12 cr, §SeEd 3621; prereq 5475 or SeEd 5350; S-N only)

CI 5491. Current Developments in English Education. (1-6 cr [max 12], §SeEd 5350; A-F only)
New instructional approaches, new materials, current issues and problems in English and language arts education. Each offering will focus on a single topic or issue.

CI 5500. Teaching Science in the Elementary School. (3 cr, §Elem 5346; prereq elem ed MEd/init lic student or #)
Materials, resources, and methods of teaching science at the elementary level.

CI 5501. Workshop: Elementary School Science Education. (1-8 cr [max 16], §Elem 5347)
Issues, materials, and instructional techniques. Topic and credits vary.

CI 5504. Materials and Resources for Elementary School Science. (4 cr, §Elem 5350; prereq elem tchg exper)
Using educational materials and media common to the teaching of modern elementary school science.

CI 5506. Teaching Health in the Elementary Schools. (1 cr, §Elem 5213; prereq elem ed MEd/init lic student or #)
Techniques of and materials for teaching health at the elementary level.

CI 5530. Science Education for the Middle School. (4 cr, §SeEd 5700; prereq sci ed student or #; A-F only)
Planning effective science education for middle school students.

CI 5531. Teaching Secondary School Science: A Constructivist Approach. (4 cr, §SeEd 5702; prereq 5530, 5580, admission to MEd/init lic sci ed program or #)
Methods of secondary school science teaching.

CI 5532. Current Developments in Secondary School Science Teaching. (4 cr, §SeEd 5390; prereq MEd or grad student or #; A-F only)
Curricula, methods, materials of instruction, evaluation.

CI 5533. Studies in Science Education. (4 cr, §SeEd 5397; prereq MEd or grad student; A-F only)
Improvement of science teaching through application of research findings.

CI 5534. Foundations of Science Education. (4 cr, §SeEd 5706; prereq MEd or grad student; A-F only)
Analyzing present practices in light of historical and philosophical foundations of science education.

CI 5535. Advanced Methods of Secondary Science Teaching and Assessment. (4 cr; prereq MEd or grad student or #; A-F only)

CI 5537. Workshop: Science Education. (1-8 cr [max 16], §SeEd 5394)
For middle and high school and college science teachers. Issues, materials, and instructional techniques. Topic and credits vary.

CI 5572. Seminar: Reflecting on Clinical Experience in Science Teaching. (3 cr, §SeEd 5705; prereq 5531 or (SeEd 5702, SeEd 5703) or #, ¶5582 required)
Reflections and issues related to clinical experience in teaching science.

CI 5580. Applying Science Methods in Middle and Secondary Schools. (1-4 cr [max 10], §SeEd 5701, §SeEd 5703; prereq MEd/init lic sci ed student or #, ¶5530 or ¶5531; A-F only)
Practicum in conducting, analyzing, and reflecting on science teaching.

CI 5582. Clinical Experience in Science Teaching. (6 or 12 cr, §SeEd 5704; prereq 5531 or SeEd 5702, 5581 or SeEd 5703, #, ¶5572; S-N only)
Supervised clinical experiences in secondary school science teaching.

CI 5619. Teaching Second Languages and Cultures in Elementary Schools. (4 cr, §Elem 5319)
Methods and materials: development of oral and written communication; consideration of alternatives in program format; preparation of materials; global awareness and cross-cultural experience; assessment of children's language; children's literature, games, songs; development of units and lessons.
CI 5620. Second Languages and Young Children: Like Child's Play. (4 cr, §Elem 5321) Current approaches to teaching second languages to young children. How young children acquire language and the effects of bilingualism on child development; rationales, advantages, and pedagogical theories of various program models, from full immersion to programs that emphasize cultural understanding.

CI 5631. Second Language Curriculum. (3 cr each qtr [total 9], §SeEd 5801; prereq MEd/init lic student) Developing skills for selecting, organizing, and providing effective second language learning opportunities through observation, practice, and reflection. Spans one academic year; component of teacher education program.

CI 5632. Second Language Instruction. (3 cr per qtr [total 9], §SeEd 5802; prereq MEd/init lic student) The nature of school and second language curriculum; a variety of curricular orientations and their implications for instruction and evaluation. Spans one academic year; component of teacher education program.

CI 5633. Second Language Research. (2-6 cr per qtr [max 6], §SeEd 5803; prereq SLC MEd/init lic grad, 6 cr taken after lic completion) Classroom-based examination of teaching and student learning spanning an academic year.

CI 5634. Second Language Curriculum Research. (2-4 cr, §SeEd 5218) Social, political, and educational context of assessing students with limited English proficiency. Evaluation vs. research and implications for bilingual schooling, curriculum development, and materials selection; methods for assessing language proficiency and academic achievement.

CI 5635. Schooling Outcomes for a Multiethnic Society. (4 cr, §SeEd 5221; A-F only) Analysis of schooling experiences for students of African-American, Hispanic, Asian, and American Indian backgrounds. Changing perspectives concerning ethnic student achievement, research that examines factors influencing school achievement, and prospects for change.

CI 5650. Second Languages and Cultures Education: Introduction and Overview. (4 cr, §SeEd 5186) Overview of curricula and instruction in various settings: elementary, secondary, open, free, suburban, and center city schools; bilingual programs, immersion programs, colleges, community colleges, universities, and adult programs, including teacher preparation.

CI 5652. Teaching Culture: Theory and Application. (4 cr, §SeEd 5122; prereq MEd/init lic or grad student) Analysis of the concept; related factors and materials for classroom use; culture shock; empathy; culture conflict, awareness, learning.

CI 5656. Reading and Writing in a Second Language. (4 cr, §SeEd 5219) Reading comprehension and composing processes in a second language; relationship between first and second language comprehension and composing processes, reading and writing, and culture and reading comprehension and writing; politics of literacy; assessment of second language literacy.

CI 5657. Speaking and Listening in a Second Language. (4 cr, §SeEd 5385) Theories and methods in teaching language as communication in oral and aural modes; planning student interaction; classroom organization for learning and acquisition. Students complete reflective analyses of lessons.

CI 5658. Second Language Testing, Assessment, and Evaluation. (4 cr, §SeEd 5382) Language proficiency assessment, English as a second language, bilingual education; oral interviews; testing communicative abilities; standardized language measures; building test items; evaluating programs; aptitude and attitude measurement.

CI 5660. Special Topics in the Teaching of Second Languages and Cultures. (1-10 cr [max 10], §SeEd 5191) Related specifically to the needs of the in-service teacher; topics, location, and duration will be highly flexible.

CI 5662. Critical Issues in Second Language Curriculum. (4 cr, §SeEd 5189) Development of competencies in curriculum and materials construction; application to lessons, units, modules, courses, levels of instruction in ongoing programs of second language acquisition in schools.

CI 5680. Practicum: Teaching Second Languages and Cultures in Elementary Schools. (3 cr, §Elem 5320; prereq 5619 or ¶5619 or Elem 5319, #; S-N only) Minimum of three hours weekly of supervised teaching and observation in elementary schools.

CI 5684. Clinical Experiences in Second Languages. (6 cr per qtr [max 12 or 18]; prereq MEd/init lic student) Teaching and learning experiences in elementary and secondary second language classrooms. Component of teacher education program.

CI 5690. Directed Study in Second Languages and Cultures. (Cr ar [max 6], §SeEd 5351; prereq ed or grad student) Individual or group work on curricular, instructional, or evaluation problems.

CI 5700. Teaching Social Studies in the Elementary School. (3 cr, §Elem 5361; prereq 5510 or Elem 3101 or equiv, MEd/init lic student) Content and organization of social studies programs; programs of understanding, improving the learning situation, and effective use of materials.
CI 5730. Social Studies for the In-Service Elementary/Middle School Teacher. (4 cr, §Elem 5361; prereq elem tchg exper; A-F only)
Content and organization of social studies programs; programs of understanding, improving the learning situation, and effective use of materials.

CI 5740. Introduction to Social Studies Education. (4 cr, §SeEd 5152; prereq postbac student)
Analysis of teaching strategies and contemporary curriculum materials in the social studies; techniques of instruction useful in inquiry; strategies of analysis; classroom behavior and evaluation. Required of M.A., M.Ed., and Ph.D. candidates.

CI 5741. Advanced Methods of Teaching the Social Studies. (4 cr, §SeEd 5150; prereq MED/init lic student)
Advanced methods for social studies teachers. Prerequisite to other graduate-level courses in social studies education.

CI 5742. The Social Sciences and the Social Studies. (3 cr per qtr [max 6], §SeEd 5153; prereq MED/init lic student)
Issues, materials, and instructional techniques.

CI 5743. Seminar: Reflecting on the Clinical Experience in Social Studies Education. (3 cr; prereq soc studies MED/init lic student or #; A-F only)
Emphasis on reflecting on the student teaching experience, developing a professional identity, and refining teaching skills.

CI 5746. Teaching About the Newspaper in the Classroom. (1-3 cr [max 4], §Elem 5227)
Institution of the newspaper; articulation of a series of useful instructional strategies, curriculum development techniques, and teaching materials.

CI 5747. Global and Environmental Education: Content and Practice. (4 cr; A-F only)
To help teachers, curriculum specialists, and administrators assess current issues, instructional methods, and materials.

CI 5760. Social Studies for the In-Service Middle/Secondary School Teacher. (4 cr, §SeEd 5152; prereq sec tchg lic or #; A-F only)
Provides broader understanding of each of the social sciences, focusing on central concepts and generalizations, methods of inquiry, pedagogical techniques, and resources.

CI 5780. Practicum: Secondary Social Studies Education. (1-7 cr [max 7], §SeEd 3152; prereq MED/init lic student)
Pre-student teaching experience to develop teacher competencies; supervised observation and participation in classroom and related school activities.

CI 5782. Student Teaching in Secondary Social Studies. (3-15 cr [max 15], §SeEd 3641; prereq MED/init lic student; S-N only)
Observing, participating in, and supervising secondary social studies classes.

CI 5821. Teaching Mathematics in the Elementary School. (3 cr, §Elem 3391; prereq 5110 or Elem 3100, Elem 3101, Math 1005, Math 1006)
Principles of learning pertinent to the modern program of mathematics in primary and elementary grades; objectives, content, philosophy, instructional materials, and methods of instruction and evaluation.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

CI 8075. Seminar: Art Education

CI 8079. Research in Art Education

CI 8099. Problems: Art Education

CI 8130. Curriculum and Instruction Core: Critical Examination of Curricular Contexts

CI 8131. Curriculum and Instruction Core: Teaching Theory and Research

CI 8132. Curriculum and Instruction Core: Research Methods in Curriculum and Instruction

CI 8133. Seminar: Teaching in Colleges of Education

CI 8134. Practicum: Teaching in Colleges of Education

CI 8135. Interdisciplinary Curriculum Issues

CI 8136. Curriculum Reform and Social Change

CI 8140. Curriculum Implementation and Leadership

CI 8147. The Domain of Curriculum Theory and Research: Alternative Paradigms and Methods

CI 8160, 8161. Planning a Research Experience

CI 8181. Curriculum Leadership: Internship

CI 8189. Problems: Improvement of Instruction

CI 8197. Problems: Teacher Education

CI 8199. Problems: Curriculum Studies

CI 8290. Problems: Teaching Kindergarten

CI 8361. Advanced Courseware and Design: Issues

CI 8390. Problems: Instructional Systems

CI 8391. Instructional Systems Seminar

CI 8400. Special Topics in Children's and Young Adult Literature

CI 8412. Research in Reading

CI 8413. Special Topics in Reading Research and Instruction

CI 8420. Research in Composition

CI 8471. Special Topics in Literacy
CI 8492. Readings in English Education and Reading
CI 8493. Problems: Teaching English and Reading
CI 8500. Research Foundations of Science Education
CI 8570. Advanced Topics in Science Education
CI 8590. Problems: Science Education
CI 8630. Research in Second Languages and Cultures Education
CI 8631-8632-8633. Research Seminar: Second Languages and Cultures Education
CI 8650. Seminar: Special Topics in Second Languages and Cultures Research
CI 8694. Problems: Second Languages and Cultures Education
CI 8698. Readings in Second Languages and Cultures Education
CI 8740. Seminar: Trends and Issues in Social Studies Education
CI 8742. Seminar: Research in Social Studies Education
CI 8750. Problems: Social Studies Education

EDUCATION (EDUC)

Educ 3001. Exploring the Teaching Profession. (1 cr per qtr [max 6]; prereq early admission to init lic/MEd program; S-N only) Bents Interrelatedness of education, teaching, and the local context; focus on student and practitioner experiences.

Educ 8666. Doctoral Pre-Thesis Credits

Educ 8777. Thesis Credits: Master's

 Educ 8888. Thesis Credits: Doctoral

EDUCATIONAL ADMINISTRATION (EDAD)

EDUCATIONAL POLICY AND ADMINISTRATION

EdAd 8666. Doctoral Pre-Thesis Credits

EdAd 8888. Thesis Credits: Doctoral

EDUCATIONAL POLICY AND ADMINISTRATION (EDPA)

See also Educational Administration (EdAd).

EdPA 3099. Inventing the Future. (4 cr; A-F only) Harkins Futures as professional field, skills in developing personal and organizational futures; representative views of future through literature, lectures, and videotapes; trends in organizations, learning, global relationships, communications, spirituality, and home lives.

EdPA 3101. Historical Foundations of Modern Education. (4 cr, §5101, §Hum 3101/5101) Bagley Analysis and interpretation of important elements in modern education derived from the Greeks, Romans, Middle Ages, Renaissance, Reformation, Enlightenment, and Industrial Revolution. Background course for all other history and philosophy of education courses.

EdPA 3120. Childhood Education: Western Civilization. (4 cr, §5120; A-F only) Bagley Surveys imagery, ideas, theories, and practices of child rearing and organized education in Western civilization, ancient to modern. Emphasis on pictorial documentation of children, childhood, and education; analysis of word-image relations in conceiving childhood and the education of children.

EdPA 3155. History of Western Educational Thought. (4 cr, §5155, §Hum 3155/5155) Bagley Major educational classics of Western civilization, including Plato, Aristotle, Cicero, Quintilian, Montaigne, Milton, Locke, and Rousseau.

EdPA 5090. School and Society. (3 cr; prereq FoE student or sr or MEd/init lic student or CLA music ed major or tcg major or A-F only) Bagley, Harkins, Lewis Readings in social science and philosophy relevant to thinking about the role of school in a changing American society.

EdPA 5099. Directed Study. (Cr ar [max 9]; prereq #) Individual or group work on topics or problems in social and philosophical foundations of education.

EdPA 5101. Historical Foundations of Modern Education. (4 cr, §3101, §Hum 3101/5101) Bagley Analysis and interpretation of important elements in modern education derived from the Greeks, Romans, Middle Ages, Renaissance, Reformation, Enlightenment, and Industrial Revolution. Background course for all other history and philosophy of education courses.

EdPA 5102. Education Imagery in Europe and America. (3 cr) Bagley Images and ideas of education expressed in the visual arts of Western civilization (antiquity to 20th century) in relation to concurrent educational thought and practice; symbolism, myth, propaganda, didacticism, genre, caricature.

EdPA 5103. Supervision and Administration of Special Education. (3 cr, §EPsy 5660; prereq #) Procedures in establishing and improving educational programs for exceptional children.

EdPA 5120. History of Childhood Education. (3 cr; §3120) Bagley Childhood education in Western civilization; emphasis on images, symbols, ideas important to educational theory and practice in home and school.
EdPA 5125. Youth in Modern Society. (4 cr, §Soc 5952) Schneider
Youth in advanced societies and as a social entity; functions and roles in industrial society, family, education, politics and government, economy and work, welfare, and religion; organizations, social movements, and subcultures; empirical research and cross-cultural perspectives.

EdPA 5128. Workshop: Educational Administration. (1-6 cr)
Opportunities through laboratory approach for experienced administrators to concentrate their study on common administrative and supervisory problems.

EdPA 5130. Leadership Development Seminar. (3 cr)
Assessment and development of skills required of the educator in the areas of planning, decision making, and human relations; introduction to contemporary issues in educational administration.

EdPA 5131. Comparative Education. (4 cr) Cogan
European, Asian, and American systems and philosophies of education; possibilities of international education.

EdPA 5139. Laboratory in Decision Making. (3 cr)
Contribution of recent research and theory to effective administration; analysis of administrative behavior in realistic settings and relations of administration to human behavior.

EdPA 5141. Critical Issues in Contemporary Education. (3 cr) King, York-Barr
Introduction to ideas involved in current theory and practice.

EdPA 5142. Racial and Ethnic Diversity in Higher Education. (3 cr; A-F only) Turner
Review of research on racially and ethnically diverse populations in higher education. Theoretical frameworks, methodological perspectives, and research strategies used to study students, staff, and faculty; historical perspectives.

EdPA 5155. History of Western Educational Thought. (4 cr, §3155, §Hum 3155/5155) Bagley
Major educational classics of Western civilization; Plato, Aristotle, Cicero, Quintilian, Montaigne, Milton, Locke, Rousseau, and others.

EdPA 5156. History of Ideas in American Education. (3 cr) Bagley
Readings in American political, economic, and social development related to education; reference to the emerging system of public education. Recommended as background for 5170 but not a prerequisite.

EdPA 5167. The American Middle School. (3 cr)
Sources of the movement; purposes, functions, and limitations; fundamental problems, types, and curricular implications of reorganization.

EdPA 5169. Ethnic Groups and Communities: Perspectives on Families, Children, and Youth. (3 cr) Lundy-Dobbert
Roles of children and youth in widely varied North American communities. Comparative aspects of youth commitment to society, economic value of young people, youth-adult conflict, and youth roles in the family. Focus on well-defined analyses of contextual roles and complexity of policy for appropriate educational and community development.

EdPA 5170. American Pragmatism and Education. (3 cr)
Analysis and interpretation of the educational philosophy of pragmatism (experimentalism); readings from Dewey, Kilpatrick, Bode, Counts, Childs, and others.

EdPA 5171. Anthropology and Education. (4 cr, §Anth 5145) Lundy-Dobbert
Cross-cultural perspectives in examining educational patterns, the implicit and explicit cultural assumptions underlying them; methods and approaches to cross-cultural studies in education.

EdPA 5173. Case Studies for Policy Research. (3 cr; prereq ed or grad student or #; A-F only) Turner
Using qualitative case study research method and applying it to educational practice. Emphasis on designing studies that employ open-ended interviewing as primary data collection technique. Class project.

EdPA 5174. Ethnographic Research Methods. (4 cr; prereq 5171 or Anth 5145 or 5144) Lundy-Dobbert
Practice in aspects of field methodology below the level of full field study; detailed reading; analysis of studies in anthropology and education for methodological content.

EdPA 5176. Ethnographic Research Skills Laboratory. (2 cr; prereq §5174; S-N only) Lundy-Dobbert
Introduction to processes of creating evaluative design; supervised practice in data analysis, use of theory, proposal writing, reporting.

EdPA 5178. Project in Teacher Leadership. (1-9 cr, §CI 5178; prereq grad student or #) Create and present a leadership project designed to instigate or promote change within education.

EdPA 5180, 5181. Seminar: Administration of Special Education. (3 cr per qtr, §EPsy 8760-8761; prereq 5103 or EPsy 5660 or #)
Problems of administration and organization of special education programs.

EdPA 5182. Comparative Philosophies of Education. (3 cr) Orton
Competing philosophies of education.

EdPA 5190. Sociology of Education. (4 cr, §Soc 5953) Louis
Advanced studies in the social aspects of education, including the school as a socialization process, the social structure of education, the role of the school in social change.
EdPA 5201. Formal Organizations in Education. (3 cr)
Anderson, Turner
Introduction to classical and current theories of organizational behavior and administration in education. Leadership and control, communication, conflict, the effects of educational environments, organizational design and change, and organizational effectiveness.

EdPA 5202. Politics of Education. (3 cr) Mazzoni
Social science findings, concepts, and methods used to consider political context of educational administration; public school policy making by local and state governments; role of administrators.

EdPA 5204. Financing Elementary and Secondary Schools. (3 cr) Sederberg
Value assumptions and educational finance policy, economic factors, sources and characteristics of educational revenue, state and local distribution systems, federal support, urban/rural variations, institutional financing alternatives.

EdPA 5207. History of Curriculum in U.S. Public Schools. (4 cr, §CI 5136; A-F only)
Formation of public school subjects and curriculum theory in the United States from European roots and early development in 19th century to contemporary issues of reform; social, political, and economic implications of curriculum history.

EdPA 5209. Education in Future Social Systems. (3 cr) Harkins
Interdisciplinary inquiry into problems of social specialization and generalization; projections and analysis of long-range (30 years or more) social and technological trends related to education.

EdPA 5210. Social Forecasting and Educational Futures. (3 cr) Harkins
Application of social sciences in their academic and applied dimensions to formal education, including a social-scientific and systems orientation toward communities; emphasis on short-range social and educational planning—near-present to a few years hence.

EdPA 5211. Social Design and Educational Futures. (3 cr) Harkins
Medium-range interdisciplinary approach to community design and analysis emphasizing formal education systems in community context; focus upon new neighborhoods, towns, experimental cities and subcultural enclaves in rural and urban settings emphasizing time period from several years to three decades hence.

EdPA 5212. School Budgeting. (3 cr) Sederberg
Concepts and skills involved in preparing financial budgets for public schools; competency in translating educational programs into budgetary systems, anticipating revenue receipts, planning expenditures, and techniques for preparing balanced budget.

EdPA 5214. School Management Information Systems. (3 cr) Sederberg
Basic techniques required to generate, maintain, and make accessible the computer-based management information system in education.

EdPA 5215. The Principalship. (3 cr) Alkire
Role of the principal: qualifications, duties, and problems.

EdPA 5216. Recent Research in Elementary School Administration. (3 cr; prereq 5215) Alkire
Pertinent research literature.

EdPA 5221. Introduction to Policy Research. (3 cr; grads may regis S-N, all others must regis A-F) Anderson, Mazzoni
Political, philosophical, environmental, and methodological issues that accompany policy research in education; applicability of quantitative and qualitative methods.

EdPA 5224. Legal Implications of Acts by School Boards, Administrators, and Teachers. (3 cr; A-F only) Hooker
Constitutional, statutory, and common law bases of school administration; principles growing out of fundamental legal procedures.

EdPA 5225. Educational Policy and the Law. (3 cr; A-F only)
Analysis of court decisions, statutes, and administrative regulations related to equality of educational opportunity and equal protection under the law.

EdPA 5227. Public School Personnel Programs. (3 cr) Alkire
Selection, assignment, evaluation, and development of school personnel; salary and conditions of service; policies of administrative, instructional, and noninstructional personnel.

EdPA 5240. Seminar: Clinical Experiences in Educational Administration. (1-9 cr, §8240; S-N only)
For educational administration majors engaged in clinical experiences.

EdPA 5245. Ethics, Morality, and Values in Education. (3 cr) Orton
Key issues of professional practice.

American higher and postsecondary education in historical and contemporary perspective; special emphasis on societal and political demands on higher education system, consequent changes in its forms and functions.

EdPA 5260. Introduction to Educational Planning. (3 cr) Principles, tools, and emerging issues in higher and elementary/secondary education settings, including decision-making models, strategic planning, forecasting, program planning, and short-range planning.
EdPA 5263. Leadership in Education. (4 cr; prereq admission to MEd program; A-F only)
Lab experience to assess and enhance leadership skills of educators and others who work in organizations serving youth. Includes self assessment, decision making, communication, and other leadership skills.

EdPA 5265. Administering the High School Program. (3 cr)
Emphasis on the principal as instructional leader; practices and procedures used in building a master schedule; analysis and evaluation of the school program and services.

EdPA 5267. Small Group Dynamics and Shared Decision Making. (3 cr, §EPsy 5155; EPsy 5150 recommended; A-F only)
Theory and research in the field of group dynamics and application to practical situations. Setting clear and operational group goals, communicating, leadership, power and influence, group decision-making, controversy and group problem solving, and conflict resolution.

EdPA 5268. Educational Administration for Academic Excellence. (3 cr; prereq affiliation with Renaissance school; UC only; S-N only)
Lab for school leaders. Common administrative and supervisory issues concerning student and teacher academic performance improvement. Motivation principles for academic excellence.

EdPA 5269. Advanced Educational Leadership. (3 cr; prereq 5268, affiliation with Renaissance school; UC only; S-N only)
Laboratory approach for school leaders to increase and enhance their leadership skills.

EdPA 5272. Problems: Educational Policy and Administration. (1-3 cr per qtr, §8272)
For educational policy and administration students qualified to make intensive studies of a school system.

EdPA 5274. Two-Year Postsecondary Institutions. (3 cr, §VoEd/WCFE 5274) Turner
Present status, development, functions, organization, curriculum, and trends in postsecondary but nonbaccalaureate institutions.

EdPA 5280. Introduction to the Economics of Education. (4 cr) Lewis
Economic impact of education on educational markets, prices and production relationships, distribution of income, and investment and cost-benefit analysis in education.

EdPA 5281. Cost and Economic Analysis in Educational Evaluation. (3 cr; S-N only) Lewis
Use and application of cost-effectiveness, cost-benefit, cost-utility, and cost-feasibility in evaluating educational problems and programs.

EdPA 5285. Principles and Methods of Evaluation. (3 cr, §EPsy 5240)
Introductory course in program evaluation; theory, practical examples, purposes, role, program descriptions, evaluation strategies.

EdPA 5292. The Law and Postsecondary Educational Institutions. (3 cr; A-F only)
Analysis of court opinions and federal regulations affecting postsecondary institutions.

EdPA 5340. Organizational Approaches to Youth Development. (3 cr, §VoEd/WCFE 5430; prereq VoEd/WCFE 5410 or #; A-F only)
Understanding organizational systems responsible for youth development in the community and debating policy issues surrounding them.

EdPA 5370. America’s Schools in the 20th Century. (3 cr, §CI 5149; prereq ed or grad student or #; A-F only)
Analysis and interpretation of events and issues that shaped America’s schools in the 20th century; current proposals for education reform and their antecedents.

EdPA 5420. Leadership and Administration of Student Affairs. (3 cr, §EPsy 5420)
Scope, administration, coordination, and evaluation of programs in college and university student affairs.

EdPA 5540. Seminar: The College Student. (3 cr, §EPsy 5451; prereq 6 cr psych or ed psych)
Psychology and sociology of college students; research concerning diversity of populations, vocational development of students; student society, culture, mental health, underachievement, dropouts, values and attitudes; relevant research methods.

EdPA 5601. International Education: Topics in Classroom Practices and Procedures. (1-12 cr [max 12]; prereq tchg lic, #; A-F only) Cogan, Mestenhauser, Paige
Educational practices in a designated country, region, or cultural group; impact of social and cultural features; organization, school structures, classroom practices, and delivery of educational services; potential for implementation in the United States.

EdPA 5603. International Education and Development. (4 cr; A-F only) Cogan, Mestenhauser, Paige
Contemporary theories relating formal and nonformal education to national development in social, cultural, political, and economic sectors; alternative conceptualizations and theoretical perspectives on education and development.

EdPA 5605. Research Topics: International Development Education. (4 cr; A-F only) Cogan, Mestenhauser, Paige
Empirical research conducted in developing societies relating formal and nonformal education to national development in social, cultural, political, and economic sectors.

EdPA 5607. Applied International Development Education. (4 cr; A-F only) Cogan, Mestenhauser, Paige
Educational innovations to promote national development in selected developing nations; educational case studies in the context of such objectives; conceptualizations of the role of education in development and outcomes.
EdPA 5609. Critical Issues in International Education and Educational Exchanges. (4 cr; prereq #: A-F only)
Mestenhauser
Comprehensive, multi-dimensional approach to policy and practices of U.S. and other universities in international education and its components. Conceptual development, interdisciplinarity, integration of learning and production and application of knowledge to programs, global careers, curriculum.

EdPA 5701. Theories of International Development. (4 cr; prereq intl rel major or #)
Interdisciplinary approaches to understanding contemporary development theory and practice. Theoretical framework and case studies to illustrate complexities of development planning and implementation.

EdPA 5716. Collaboration for Inclusive School Communities. (3 cr; $EPsy 5607; A-F only) York-Barr
Implications of and rationale and strategies for including students with unique needs (e.g., disabilities) in general education classroom settings. Emphasis on importance of creating a sense of community among students and adults in today's heterogeneous classrooms and schools.

EdPA 5931. Minnesota Studies in International Development (MSID) Seminar. (4 cr; prereq intl rel major or #)
Focus on intercultural living, learning, and undertaking research activities in developing nations in preparation for internships in overseas development agencies.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

EdPA 8170. Seminar: Research Methods in Anthropology and Education
EdPA 8172. Classic Readings in Anthropology and Education
EdPA 8175. General Systems Thinking for the Analysis of Education
EdPA 8220. Quantitative Foundations for Management Methods
EdPA 8225. Program Evaluation Theory and Models: Qualitative and Quantitative Alternatives
EdPA 8228. Problems: Higher Education
EdPA 8229!. Seminar: Higher Education
EdPA 8230. Seminar: Dissertation Research in Higher Education
EdPA 8238. Seminar: Theory and Research
EdPA 8241. Seminar: Internship in Educational Administration
EdPA 8248. Seminar: Metropolitan School Governance

EdPA 8250. The Higher Education Institution: Organization and Environment
EdPA 8252. Instruction and Learning in Higher Education
EdPA 8255. Leadership and Administration in Higher Education
EdPA 8257. Financing Higher Education
EdPA 8258. Federal and State Higher Education Policy
EdPA 8261. Problems: Social and Philosophical Foundations of Education
EdPA 8268. Seminar: Social and Educational Futures
EdPA 8270. Problems: Elementary School Administration
EdPA 8271. Problems: Secondary School Administration
EdPA 8273. Field Study
EdPA 8340. Simulation in Educational Design
EdPA 8341. Simulation Analysis of Education Policy Systems
EdPA 8603. Seminar: International Development Education
EdPA 8605. Problems: International Education Research
EdPA 8666. Doctoral Pre-Thesis Credits
EdPA 8777. Thesis Credits: Master's
EdPA 8888. Thesis Credits: Doctoral

EDUCATIONAL PSYCHOLOGY (EPSY)


EPsy 1602. American Sign Language II. (5 cr; prereq 1601 or #)
Fundamentals of American Sign Language (ASL) as a second language beyond the basic level. Emphasis on locatives, classifiers, and temporal and distributional aspects. Receptive and Expressive sign vocabulary building at the conversational level.

EPsy 1603. American Sign Language III. (5 cr; prereq 1602 or #)
Expands on the conversational use of American Sign Language (ASL) as a second language, including grammar, deaf culture, short stories, and narratives. Receptive and Expressive use of ASL at the conversational level.
EPsy 3119. Learning and Cognitive Bases of Education. (4 cr; prereq ed or CLA math student; prior psych course recommended; A-F only) Bart, Samuels Principles of development, learning, cognition, individual differences, classroom management, instructional methods, and related topics and their applicability to instruction and organization of curricular materials.

EPsy 3132. Psychology of Multiculturalism in Education. (4 cr; A-F only) Experientially based activities emphasizing prejudice reduction, individual empowerment in educational settings, awareness of implicit cultural assumptions, cooperative learning, conflict resolution, multicultural education, and social issues in education.

EPsy 3139. Social and Developmental Psychology in Education. (3 cr, §5139; A-F only) Narváez Topics, as they relate to K-12 classroom teaching, include human relations, students with exceptional needs and from diverse backgrounds, self-concept, moral development, peers, family, and work influences on students.


EPsy 3601. American Sign Language IV. (5 cr; prereq 1603) Conversational use of American Sign Language (ASL) and culturally significant topics relating to the deaf community, complex use of ASL, grammatical features, and vocabulary expansion. Comprehension and expression of jokes, dialogues, and stories.


EPsy 3603. Cultural Perspectives of Deafness. (3 cr; prereq 1603 or #) Introduction to the deaf community’s social norms, values, and folklore. International integration of social, religious, athletic, literary, and scholarly institutions.

EPsy 5110. Intelligence. (3 cr; A-F only) Bart Theories of intelligence, including contemporary theories; development of intelligence; implications for educational practices and psychological inquiry.

EPsy 5112. Knowing, Learning, and Thinking. (4 cr, §PsyF 5152; A-F only) Samuels Principles of human information processing; issues in memory and thought; discussion of mental operations in comprehension and understanding; analysis of intellectual structures supporting problem solving in applied settings.

EPsy 5113. Introduction to Instructional Psychology and Technology. (3 cr) Tennyson Theory, research, and practice. Focus on contemporary issues in advanced learning technologies, including instructional design, open/distance learning, virtual environments, instructional interfaces, feedback strategies for technology-based learning, multimedia/interactive media, adaptive learning, and courseware authoring.

EPsy 5114. Psychology of Student Learning. (3 cr; A-F only) van den Broek Survey of psychological methods and principles; models of the learner; topics in development, creativity, intelligence, and motivation; implications for teaching and curriculum design in preschool, elementary, and secondary education; professional training with children and adolescents as clients.

EPsy 5115. Psychology of Adult Learning. (4 cr; A-F only) Tennyson Survey of psychological methods and principles in human learning; models of the adult learner; topics in motivation, creativity, achievement, intelligence; implications for teaching and curriculum design in higher education, continuing education, and professional training.

EPsy 5116. Behavior Analysis in Education. (4 cr; A-F only) Davis, Deno, McEvoy Practical applications of reinforcement theory; behavior analysis, precision teaching, programmed instruction.

EPsy 5117. Problem Solving and Decision Making. (4 cr; A-F only) Bart Problem solving strategies, decision making rules, other cognitive components involved in these forms of reasoning, methods to enhance problem solving and decision making, and implications for practices in education and other applied domains.

EPsy 5119. Learning and Cognitive Foundations of Education. (4 cr; prereq CEHD student or CLA music ed major or Δ; prior psych course recommended; A-F only) Bart, Samuels Principles of development, learning, cognition, individual differences, classroom management, instructional delivery, and related topics and their applicability to instruction and the organization of curricular materials.

EPsy 5125. Psychology of Building Character, Values, and Behavior. (3 cr) Samuels Character education; new approaches for motivating and creating desirable values and behavior; strengths and weaknesses of traditional and new approaches.

EPsy 5130. Personality and Social Development. (3 cr; prereq 5 cr intro psych; A-F only) Major concepts and research findings in adjustment and development, with special emphasis on educational implications.

EPsy 5139. Building a Learning Community. (4 cr, §3139; prereq CEHD student or CLA music ed major or Δ, psych course; A-F only) Narváez Major theories and research on schooling as it relates to human relations, small groups, face-to-face relations, and individual personality and social development.

EPsy 5150. Social Psychology of Education. (3 cr; A-F only) DW Johnson Major social psychology areas, with emphasis on applied settings. Theory and research, major theorists, using knowledge in applied settings. Social perception, interdependence, interaction, and influence; conflict resolution.

EPsy 5151. Structuring Learning: Social Psychological Approaches. (3 cr; A-F only) DW Johnson Foundational course for using cooperative learning. Participants learn how to structure learning situations cooperatively, including (a) understanding what cooperation is, what makes it work, the teacher’s role, and research validating its use; and (b) using cooperative learning in instructional situations.

EPsy 5154. Organizational Development and Change. (3 cr, §8151; 5150 or equiv strongly recommended; A-F only) DW Johnson Theory and research in the field of organizational development and change. Organizational and social psychological theory and research are applied to practical situations. Diagnosis and intervention skills are improved.

EPsy 5155. Small Group Dynamics and Shared Decision Making. (3 cr, §EdPA 5267; 5150 or equiv strongly recommended; A-F only) DW Johnson Theory and research in the field of group dynamics and application to practical situations. Setting clear and operational goals, communicating, leadership, power and influence, group decision making, controversy and group problem solving, and conflict resolution.


EPsy 5217. Proseminar in Educational Psychology. (1-3 cr [max 3]; A-F only) Survey and examination of the types of research in educational psychology.

EPsy 5220. Educational Measurement in the Classroom. (4 cr) Terwilliger Principles and methods for construction, evaluation, and improvement of classroom measures; techniques for describing results statistically; use of measurement in evaluating instruction and student performance; assigning grades.

EPsy 5221. Basic Principles of Measurement. (3 cr; prereq 5260 or 8260 or PsyF 5110 or 8110) Davenport, Terwilliger Fundamental concepts, principles, and methods in educational and psychological measurement; educationally useful properties of tests; types and uses of derived scores; factors influencing reliability and validity.

EPsy 5222. Modern Measurement Theory and Practice. (3 cr; prereq 5221, 8260, 8261 or equiv) Davison Introduction to practices such as item banking; test scoring equipment; and theories of test items analysis, reliability, and validity.

EPsy 5229. Classroom Assessment Methods. (2 cr; concurrent participation in practice tchng or similar field exper recommended; A-F only) Concepts and techniques necessary for effectively diagnosing learning problems and assessing educational outcomes. Emphasis on constructing teacher-made assessment devices that are efficient, technically sound, and directly relevant to classroom decision making.

EPsy 5240. Principles and Methods of Evaluation. (3 cr, §EdPA 5285) Garfield, King, Lawrenz Introductory course in program evaluation; theory; practical examples; purpose, roles, program descriptions, and evaluation strategies.

EPsy 5243. Practicum: Survey and Observational Research Methods. (3 cr; prereq 5220 or 5221 or equiv) Garfield Planning, development, implementation, analysis, and reporting of survey and observational methods, including questionnaires, interviews, and various observational techniques.

EPsy 5246. Evaluation Colloquium. (1 cr [max 6]; S-N only) King Informal seminar of faculty and students interested in problems of evaluation.


EPsy 5261. Applied Matrix and Vector Concepts. (1 cr; S-N only) Terwilliger Introduction to concepts and operations; applications in multiple regression, factor analysis of variance.
EPsy 5262. Statistical Computing Using Minitab. (2 cr; prereq 5260 or equiv; S-N only) Practical experience using time-sharing computer language MINITAB; applications of introductory statistical methods and concepts to data files.

EPsy 5263. Statistics for Preprofessional Students. (4 cr; A-F only) Descriptive statistics for continuous variables, simple regression and correlation, inferences on means, introduction to analysis of variance and multiple regression, contingency tables, computer analysis techniques.

EPsy 5280. Computer Programming: PASCAL. (3 cr; prereq sr) Computer as a tool for research in behavioral sciences. Pascal is taught for both micro and mainframe. Lab.

EPsy 5281. Introduction to Statistical Computing. (1 cr; S-N only) University computing resources; SPSS and MINITAB on MS DOS (Windows), VAX, and Macintosh; spreadsheets, editors, word processing, e-mail, and compilers. Emphasis on data analysis applications.


EPsy 5401. Counseling Procedures. (3 cr; A-F only) For persons whose professional work includes counseling and interviewing: not for license as school counselor. Emphasis on counseling relationship and principles of interviewing: case studies, role playing, and demonstration.

EPsy 5417. Clinical Use of Tests in Psychological Services. (3 cr; prereq CSPP major; A-F only; S-N only) Hummel Statistical methods related to test interpretation; critical review and selection of standardized tests.

EPsy 5420. Leadership and Administration of Student Affairs. (3 cr, §EdPA 5420) Scope, administration, coordination, and evaluation of programs in college and university student affairs.

EPsy 5430. Foundations of Career Development. (3 cr) LS Hansen Introduction to theory, research, practice; examination of concepts of work, work values, career and career education; application of theory and research to career guidance practice in educational, industrial, and community agency settings.

EPsy 5431. Career Development: Theory and Counseling Applications. (3 cr; prereq CSPP major; A-F only) LS Hansen Provides students in counseling and allied fields with background. Emphasis on counseling skills; work and other life values, counseling process, planning and decision making, information and employment trends, sex equity in career options, needs of specific groups.

EPsy 5432. Career Development Programs and Organizational Change. (3 cr; prereq 5430 or 5431 or equiv or #) LS Hansen Provides knowledge and skills to create and implement programs for a variety of populations and settings; life-roles concept integrated with systematic model of program development; emphasis on new patterns of work and career, organizational change and intervention, and diversity issues in career development.

EPsy 5433. Developmental Career Counseling of Women. (3 cr) LS Hansen Counseling skills and interventions to facilitate career development of girls and women at different life stages; sex role system, female socialization and stereotyping; facts, myths, and trends regarding women’s changing roles in technologically and socially diverse settings; issues of sexism in strategies and programs.

EPsy 5434. Counseling Adults in Transition. (3 cr) Romano Psychological, physical, and social dimensions of transitions in adulthood, e.g., family and personal relationships, career. Adult development theory, stress and coping, helping skills and strategies.

EPsy 5451. Seminar: The College Student. (3 cr, §EdPA 5540; prereq 6 cr psych or ed psych; A-F only) Psychology and sociology of college students; research concerning diversity of populations, vocational development of students, student society, culture, mental health, underachievement, dropouts, values and attitudes; relevant research methods.

EPsy 5461. Cross-Cultural Counseling. (3 cr; A-F only) Thomas Effect of cross-cultural and cross-national differences in counseling processes.

EPsy 5531. Career Skills. (2 cr; prereq CSPP student or #; S-N only) LS Hansen Part of career counseling sequence for counseling majors and coordinated with career development theories and field placement. Application of theories from 5431 plus practice through case studies, role plays, simulations, assessments.

EPsy 5600. Childhood Language Development: Classroom Implications. (3 cr; A-F only) Turnure Recent trends and findings in study of language acquisition and communication; classroom implications, including education of exceptional children.

EPsy 5601. Education of Exceptional Children. (4 cr; A-F only) Introduction to field of special education for classroom teachers and other school personnel.
EPsy 5602. Computer Technology in Special Education. (3 cr)
Research on applying computer technology to special education in light of learning theory, principles of effective instruction, and instructional needs of special education populations.

EPsy 5604. Transition From School to Work and Community Living for Persons With Special Needs. (4 cr; A-F only)
Organization and design of training programs to promote independent living, vocational and community adjustment of persons with disabilities and other at-risk populations; curriculum materials, methods, and organizational strategies for adolescent and adult learners, families, and community service providers.

EPsy 5607. Collaboration for Inclusive School Communities. (3 cr; §EdPA 5716; A-F only)
Implications of and rationale and strategies for including students with unique needs (e.g., disabilities) in general education classroom settings. Emphasis on importance of creating a sense of community among students and adults in today's heterogeneous classrooms and schools.

EPsy 5608. Parent and Professional Planning for Handicapped Students. (3 cr; A-F only)
Study and demonstration of constructive approaches to cooperative planning and implementation of education programs by parents, teachers, and persons involved with children who have special needs.

EPsy 5609. Family-Professional Planning for Persons With Severe Handicaps. (3 cr; A-F only)
Needs of families including children with severe handicaps; emphasis on life cycle needs, service issues, programs of support from infancy through adult years, services from different agencies, disciplines, professional requirements, and responsibilities in serving families.

EPsy 5612. Education of Learning-Disabled Children. (3 cr; A-F only) Deno, Espin
Analysis of considerations in design and conduct of services for learning-disabled children; approaches to their education.

EPsy 5615. Educational Interventions for Learning Disabilities. (3 cr; prereq 5612; A-F only) Deno, Espin
Planning, implementing, evaluating academic programs for students with disabilities in written and spoken language, quantitative concepts, and cognitive skills required for learning.

EPsy 5620. Introduction to Mental Retardation. (4 cr; §CPsy 5315; prereq 5601 or PsyS 5101 or #; A-F only) Turnure
Issues that relate to educational practices; community planning; educational philosophy, administration and organization, programming.

EPsy 5621. Methods and Materials for Students With Mild to Moderate Mental Retardation. (4 cr, §PsyS 5121; prereq 5601 or PsyS 5101 or equiv; A-F only) Rynders
Curriculum content, materials, and methods of instruction for students with mental retardation; preparing instructional instruments leading to both individual and group teaching expertise.

EPsy 5622. Programs and Curricula for Learners With Moderate to Severe Disabilities. (4 cr) Hupp
Elementary and secondary school program design and curricula. Emphasis on preparing children and youth for integrated, normalized community environments in domestic living, leisure, and vocational domains. Developmentally appropriate programming. Structured observation of learners with severe disabilities.

EPsy 5624. Biomedical and Physical Aspects of Developmental Disabilities. (3 cr; A-F only)
Selected information in genetics; anatomy, physiology, and kinesiology; central and peripheral nervous system; prenatal, perinatal, and postnatal development; physically disabling conditions; and management and educational procedures.

EPsy 5625. Education of Infants and Preschool Children With Developmental Disabilities. (3 cr; prereq 5601 or 5620 or PsyS 5101 or PsyS 5120 or #; A-F only) McEvoy, Rynders
Issues, problems, and practical applications in designing strong programs for young children with all types of disabilities.

EPsy 5626. Instruction for Learners With Moderate to Severe Disabilities. (4 cr; prereq 5116, 5622) Hupp
Data-based strategies for school and nonschool instruction; basic measurement principles; assessment design, implementation, and instruction evaluation; concept and task analysis; natural and instructional cues, corrections, and consequences.

EPsy 5635. Education of Students With Physical Disabilities. (4 cr; prereq 5601 or PsyS 5101 or #; A-F only) Characteristics and abilities; methods and materials for training; observation of teaching situations; personal consultation in addition to class hours.

EPsy 5636. Education of Multihandicapped Learners With Sensory Impairments. (3 cr; prereq 5601) Hupp
Characteristics of learners with visual and auditory impairments. Designing instructional programs to remediate or circumvent disabilities, including the use of prosthetic devices. Consideration of related areas of performance that may be affected by sensory impairments.

EPsy 5640. Psychological, Social, and Educational Aspects of Deafness. (3 cr; A-F only) Rose
Historical and current societal perceptions of deaf individuals; analysis of effects and patterns of hearing loss in children and adults; intelligence, personal and social adjustment, effect of psychological processes on acquisition of language, speech, and speech-reading skills.
EPsy 5641. Models of Service Delivery to Students With Hearing Loss. (3 cr; prereq 5644 or #; A-F only) Rose
Programmatic systems of support for infants, children, and youth who are deaf or hard of hearing; educational delivery system models, curriculum and material adaptation, consultation skills.

EPsy 5642. Classroom Communication Through ASL. (2 cr [max 6]; prereq ed or grad student, fingerspelling and conversational sign skills, #)
ASL form and function. Emphasis on vocabulary production and use of ASL phrase structure rules, classifiers, and other grammatical features needed by professionals working with children who are deaf.

EPsy 5643. Language for Deaf/Hard-of-Hearing Children. (4 cr; prereq 5640 or PsyS 5140; A-F only) Rose
Functional language development in communicatively disabled persons; overview of language curricula and programming strategies, pertinent research and models of instruction for use in educational environment.

EPsy 5644. Language Programming for Children With Hearing Loss. (3 cr; prereq 5643 or #; A-F only) Rose

EPsy 5646. Reading and Instructional Practices With Students Who Are Deaf or Hard-of-Hearing. (4 cr; prereq 5643 or #; A-F only) Rose
Knowledge and skills required to assess, plan, and implement instruction for individuals with hearing loss. Emphasis on theoretical and programmatic issues in reading and writing skill acquisition, curricular adaptations, and effective instructional approaches.

EPsy 5647. Aural and Speech Programming for Children With Hearing Loss. (4 cr; A-F only) Rose
Fundamentals of speech and hearing mechanisms; survey of instructional practices, technology-based assistive devices to develop auditory and speech skills. Strategies to adapt classroom environments.

EPsy 5648. Modes of Communication for Persons With Disabilities. (3 cr; A-F only) Rose
Theoretical and applied study of selection and application of alternative communication modalities; assessing and developing modes, including gestures, speech reading, cued speech, sign language, form boards, and technology-based systems.

EPsy 5651. Managing Problem Behavior in the Classroom. (3 cr; A-F only)
Typical patterns of problem behavior in classroom settings; relationships to teacher mental health; simulation of methods for prevention and management.

EPsy 5656. Educational Needs of Students With Emotional Disturbances or Behavioral Disorders. (3 cr; A-F only) Wilderson
Preparation for specialists: educational characteristics, educational intervention, teaching of social behavior, legal and ethical issues.

EPsy 5657. Educational Interventions for Students With Emotional Disturbances or Behavioral Disorders. (3 cr; prereq 5656; A-F only) Davis
Preparation for specialists: assessment and planning procedures, interagency cooperation, career preparation and transition for EBD students.

EPsy 5660. Supervision and Administration of Special Education. (3 cr, §EdPA 5103; A-F only)
Procedures in establishing and improving educational programs for exceptional children.

EPsy 5670. Introduction to Education of Children With Visual Disabilities. (3 cr; A-F only) Knowlton
Educational programs, services, and resources for blind and partially seeing children; historical background; philosophy; sociological and psychological problems.

EPsy 5671. Literary Braille. (3 cr; prereq 5670 or PsyS 5170; A-F only) Knowlton
Mastery of literary Braille code: analysis of specialized equipment emphasizing use of Braille writers, slates, and computers for Grade 2 Braille transcription.

EPsy 5672. Advanced Braille. (3 cr; prereq 5671 or PsyS 5171, ed or grad student; A-F only) Knowlton
Mastery of Nemeth Code of mathematics, introduction to foreign languages, computer notation, and consideration of Braille textbook formats and techniques; consideration of music Braille.

EPsy 5673. Methods of Teaching Children With Visual Disabilities. (4 cr; prereq 5670 or PsyS 5170; A-F only) Knowlton
Principles of preparing, selecting, and effectively using instructional materials and adaptive devices; adaptation of school environment; use of family, school, and community resources.

EPsy 5674. Orientation and Mobility Techniques for Students With Visual Disabilities. (3 cr; A-F only)
Introduction to basic techniques to gain skills in pre-cane techniques, orientation to learning environment, construction of mobility maps; consideration of cane, guide dog, and telescopic aids to mobility.

EPsy 5675. Structure and Function of the Eye: Ophthalmological Implications. (3 cr; prereq ed or grad student) Knowlton
Ophthalmological and educational considerations of anatomy and physiology of the eye and visual tract, vision screening and visual efficiency.
COURSE DESCRIPTIONS

EDUCATIONAL PSYCHOLOGY (EPSY)

EPSy 5676. Educational Management of Children With Visual Disabilities. (3 cr; prereq 5675 or #; A-F only) Knowlton
Advanced course in evaluating and managing cognitive, psychosocial, and physical needs of students; consideration of parent, teacher, and student counseling.

EPSy 5680. Education of the Disadvantaged. (3 cr; prereq 12 cr psych or ed psych or soc; A-F only) Taborn
Educational needs of children handicapped by behavior related to deficiencies of physical and/or cultural environment; adaptations of educational programs.

EPSy 5681. Methods and Materials for Infants and Preschool Children With Developmental Disabilities. (4 cr; prereq 12 cr ed or #; A-F only) McEvoy, Rynders
Methods, materials, and conceptual models for maximizing educational development of young children with all types of disabilities.

EPSy 5700. Assessment and Decision Making in Special Education. (3 cr; A-F only) Deno
For teachers and other educational personnel. Identifying needs of handicapped students; planning, monitoring, evaluating instructional programs; practice in use of standardized devices and development of clinical measures for handicapped students.

EPSy 5701. Practicum: Special Education. (Cr ar; prereq #)
Observing teaching practices or related work in schools or other agencies serving exceptional children.

EPSy 5702. Workshop: Special Education. (Cr ar; prereq #; A-F only)
Lab approach; opportunities for school personnel to study specific problems related to special education.

EPSy 5704. Workshop: Interventions and Practices in Educational and Human Service Programs. (Cr ar; S-N only)
Concepts, issues, and practices; development of educational and psychological support services in school and human service settings. For practicing professionals.

EPSy 5710. Contemporary Services for Persons With Developmental Disabilities. (3 cr; A-F only)
Survey of characteristics and service needs of persons with developmental disabilities using multidisciplinary approaches. Changing concepts, models of services, issues related to promoting self-determination, independence, productivity, and integration into the community.

EPSy 5751. Student Teaching: Deaf, Hard-of-Hearing. (Cr ar; prereq #; S-N only) Rose
Supervised experience in teaching or related work in schools or other agencies serving children with hearing impairments.

EPSy 5752. Student Teaching: Learning Disabled. (Cr ar; prereq #; S-N only) Espin
Supervised experience in teaching or related work in schools or other agencies serving children with learning disabilities.

EPSy 5753. Student Teaching: Early Childhood Special Education. (Cr ar; prereq #; S-N only) McEvoy
Supervised teaching or related work in schools or other agencies serving children in early childhood special education.

EPSy 5754. Student Teaching: Emotional Behavioral Disorders. (Cr ar; prereq #; S-N only) Davis, Wilderson
Supervised experience in teaching or related work in schools or other agencies serving children with emotional/behavioral disorders.

EPSy 5755. Student Teaching: Mild to Moderate Intellectual Disabilities. (Cr ar; prereq #; A-F only) Rynders, Turnure
Supervised teaching or related work in schools or other agencies serving children with mild to moderate intellectual disabilities.

EPSy 5756. Student Teaching: Moderate to Severe Disabilities. (Cr ar; prereq #; A-F only) Hupp
Supervised teaching or related work in schools or other agencies serving children with moderate to severe disabilities.

EPSy 5757. Student Teaching: Physical and Health-Related Disabilities. (Cr ar; prereq #; S-N only) Knowlton
Supervised experience in teaching or related work in schools or other agencies serving children with physical and health disabilities.

EPSy 5758. Student Teaching: Visual Impairments. (Cr ar; prereq #; S-N only) Knowlton
Supervised experience in teaching or related work in schools or other agencies serving children with visual impairments.

EPSy 5849. Assessment of the Preschool Child. (3 cr; prereq stat or measurement or grad course in assessment) Christenson, McConnell
Review of assessment of children ages 0-5 from developmental perspective; overview of normal and abnormal development; issues and techniques in cognitive, social, and emotional assessment; early education programs.

EPSy 5850. Creating Family-School-Community Partnerships for Educational Success. (4 cr; A-F only) Christenson
Theoretical and empirical bases for creating family-school-community partnerships; essential partnership variables; partnership models, programs, and strategies for K-12.

EPSy 5900. Independent Study. (Cr ar [max 12]; prereq #; A-F only)
Independent study in areas of special interest to students.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

EPSy 8111. Knowledge and Skill

EPSy 8115. Psychology of Instruction

EPSy 8129. Research Problems: Learning and Cognition
EPsy 8130. Personality Development and Socialization
EPsy 8131. Development of Moral-Political Judgment and Programs in Value Education
EPsy 8149. Research Problems: Personality
EPsy 8150. Psychology of Conflict Resolution
EPsy 8153. Social and Psychological Influences on Individual Behaviors
EPsy 8220. Advanced Theory of Measurement
EPsy 8221. Theory of Psychological Scaling
EPsy 8245. Seminar: Special Topics in Educational Evaluation
EPsy 8247. Internship: Evaluation
EPsy 8260, 8261, 8262. Statistical Methods
EPsy 8263. Design and Analysis of Experiments
EPsy 8264. Multiple Regression Analysis
EPsy 8265. Factor Analysis
EPsy 8266. Analysis of Results From Nonexperimental Research
EPsy 8279. Problems: Statistics for Students in Education and Psychology
EPsy 8410. Seminar: Advanced Counseling Research
EPsy 8411. Seminar: Advanced Counseling Theory
EPsy 8412. Seminar: Counseling Ethics and Professional Development
EPsy 8413. Personality Assessment of Adults
EPsy 8431. Master's Seminar: CSPP
EPsy 8435. Integrative Seminar: School Counseling
EPsy 8450. Psychological Aspects of Counseling Supervision
EPsy 8501. Counseling Pre-Practicum
EPsy 8502-8503-8504. Counseling Practicum I-II-III
EPsy 8505-8506-8507. Field Placement in CSPP
EPsy 8508. Group Counseling Skills
EPsy 8509. Supervision Practicum
EPsy 8510. Internship: CSPP
EPsy 8513-8514-8515. Counseling Practicum: University Counseling Services
EPsy 8520. Counseling Practicum: Advanced
EPsy 8521. Practicum in Student Personnel Work
EPsy 8603. Services for Persons With Developmental Disabilities: Research and Policy Analysis
EPsy 8620. Psychological Theory and Research in Mental Retardation
EPsy 8621. Functional Analysis of Behavior and Cognition in Persons With Mental Retardation
EPsy 8652. Research in Education of Disturbed Children
EPsy 8666. Doctoral Pre-Thesis Credits
EPsy 8702. Seminar: Special Education
EPsy 8706. Single-Case Designs for Intervention Research
EPsy 8760, 8761. Seminar: Administration of Special Education
EPsy 8777. Thesis Credits: Master's
EPsy 8810. Assessment Approaches in School Psychology I
EPsy 8811. Assessment Approaches in School Psychology II
EPsy 8812. Assessment Approaches in School Psychology III
EPsy 8813. Assessment Practicum in School Psychology
EPsy 8815. Theories and Methods of Instructional Intervention
EPsy 8816. School Consultation and Intervention Planning
EPsy 8817. Social-Emotional Intervention and Consultation
EPsy 8818. Intervention Practicum in School Psychology
EPsy 8821. Seminar: School Psychology
COURSE DESCRIPTIONS

EPsy 8831. Practicum: School Psychological Services
EPsy 8840. Internship: School Psychological Services
EPsy 8841. Internship: Instruction and Supervision in School Psychology
EPsy 8853. New Approaches to Psychopathology in Children and Adolescents
EPsy 8888. Thesis Credits: Doctoral
EPsy 8900. Research Problems
EPsy 8905. Landmark Issues and Great Controversies in Educational Psychology
EPsy 8910. Directed Study

FAMILY EDUCATION (FE)

WORK, COMMUNITY, AND FAMILY EDUCATION

FE 3910. Educational Methods for Family Educators. (3 cr; A-F only)
For professionals whose work includes educating people about families. Skills necessary to organize, implement, and evaluate presentations and programs for groups.

FE 5001. Special Topics. (1-6 cr)
Topics not covered by available courses.

FE 5002. Thinking, Learning, and Teaching in Work, Family, and Community. (3 cr, §VoEd/WCFE 5002; A-F only)
Nature of thinking, learning, and teaching in everyday life contexts of work, family, and community. Theory and practice relevant to stimulating and supporting thinking and learning within and for these contexts.

FE 5003. Internship: Community/Work Settings. (3-12 cr [max 12; max 6 cr applied to MEd or MA program]; prereq #)
Planned work experience focusing on educational competencies in these settings; students assume defined responsibilities of the position.

FE 5153. Consumer Education: Curriculum, Methods, and Materials. (3-4 cr, §BME 5153; A-F only)
Objectives, content, curriculum organization, teaching methods, materials, and evaluation methods for the elementary, secondary, postsecondary, and adult levels.

FE 5300. Family Education Curriculum. (3 cr; A-F only)
Research and theory; developing programs for all ages and evaluating materials.

FE 5310. Methods of Teaching Family Education. (3 cr; A-F only)
Theory and relevant research; application to educational objectives, strategies, student needs, and program evaluation.

FE 5315. Evaluation in Family Education. (3 cr; A-F only)
Collecting and interpreting evidence related to individual and program performance.

FE 5320. Adult Education in Family Education. (3 cr; A-F only)
Planning a community program; teaching procedures; special problems.

FE 5321. International Perspectives in Family Education. (3 cr; A-F only)
Family education around the world; commonalities and differences in purpose, problems, history, methods of delivery, and context.

FE 5404. Introduction to Early Childhood Family Education Programs. (1 cr)
History, philosophy, and implementation of programs.

FE 5405. Child Development and Parent Education. (4 cr; A-F only)
Objectives, content, curriculum, methods, materials, and evaluation for teaching diverse groups about social, cultural, psychological, economic, and technical aspects of child development, parenting, and parent-child interaction.

FE 5406. Special Topics in Parent and Family Education. (1-6 cr)
Issues and current literature focused on emerging topics relevant to parent and family education.

FE 5407. Family Education. (3 cr; A-F only)
Objectives, content, curriculum, methods, materials, and evaluation for teaching diverse groups about family life.

FE 5408. Work-Family Relationships. (3 cr; A-F only)
Examination of interactions between work and family, with focus on educational applications for youth and adults.

FE 5409. Group Methods for Parent and Family Education. (2 cr; A-F only)
Methods and theories applied to development of skills for leading parent and family education groups.

FE 5410. Food and Nutrition Education. (1-4 cr [max 12]; A-F only)
Objectives, content, curriculum, methods, materials, and evaluation for teaching youth and adults about nutrition principles; psychological, social, cultural, political, economic, and technical aspects of food and nutrition-related problems, decisions, and issues.

FE 5411. Challenges in Sexuality Education. (4 cr; A-F only)
Preparation to develop, deliver, and evaluate sexuality education. Strategies to help children and adults acquire information, form positive values, develop interpersonal skills, and exercise personal responsibility in the sexual dimension of individual and family life.

FE 5416. Parent Education: Advanced. (3 cr; prereq 5405 or #; A-F only)
Evolving perspectives of parent education; psychodynamic, conceptual change approaches; reflective and dialogic approaches for working with parents in understanding beliefs and examining their origins and consequences; issues related to diversity, self-awareness, and professional ethics.
FE 5450. Critical Pedagogy. (3 cr, §AdEd 5450, §VoEd/WCFE 5450; S-N only)
Critical pedagogy in schools and adult education; application to education for family, work, and community.

FE 5500. Proseminar: Family Education. (2 cr; A-F only)
Relation of processes and standards of rational thought to professional competence and goals of a graduate study program.

FE 5510. History, Philosophy, and Professional Practice of Family Education. (3 cr; prereq MEd/init lic family ed student or #; A-F only)
Critical analysis of family education and the teaching of family education; identification of practical problems encountered by families; development of a personal orientation toward becoming a family education teacher.

FE 5511. Family Education Instruction in Secondary Schools. (5 cr; A-F only)
Examination of curriculum perspectives and development of curriculum, instructional methods, and student evaluation for family education in secondary schools.

FE 5600. Practicum: Adult Education. (1-9 cr; prereq 5320 or AdEd 5411; S-N only)
Individual field assignments under supervision.

FE 5900. Independent Study in Family Education. (1-3 cr; [max 12]; prereq #)
Self-directed study with faculty advice, as needed, in areas not covered by regular courses.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

FE 8520. Seminar: History and Philosophy of Family Education
FE 8900. Problems: Family Education

HUMAN RESOURCE DEVELOPMENT (HRD)
WORK, COMMUNITY, AND FAMILY EDUCATION

HRD 5104. Survey: Human Resource Development and Adult Education. (4 cr, §AdEd 5104; A-F only)
General concepts of HRD and adult education; literature, objectives, history, philosophy, research, institutions, issues, and trends.

HRD 5253. Supervisory Training. (3 cr, §BIE 5253; prereq VoEd/WCFE 5340; A-F only)
Problems, practices, programs, issues, and methodologies related to preparing supervisor trainers.

HRD 5261. Sales Training. (3 cr, §BIE 5261; A-F only)
Strategies and techniques useful in developing effective sales people.

HRD 5262. Customer Service Training. (3 cr, §BIE 5262; A-F only)
Overview of customer service strategies used by successful organizations and training practices used to develop customer-oriented personnel.

HRD 5300. Organizational Needs Assessment. (3 cr, §BIE 5300; A-F only)
Identifying organizational performance problems, problem causes, and training solutions and other interventions to improve performance in business, industry, and schools.

HRD 5301. Student and Trainee Evaluation Systems. (3 cr, §BIE 5301; A-F only)
Test development, performance and learning evaluation, affective evaluation, learning progress reporting systems.

HRD 5366. Management Development Practices. (4 cr, §BIE 5366; prereq principles of mgmt or supervision course or #)
Problems, practices, programs, and methodologies related to developing managers, including needs assessment, delivery modes, and evaluation. Site visits and critiques.

HRD 5630. Course Development. (3 cr, §BIE 5630; A-F only)
Identifying content, stating objectives, sequencing, planning lessons, and selecting methods and media for instruction.

HRD 5660. Instructional Methods. (3 cr, §BIE 5660; A-F only)
Implementing instructional strategies and methods.

HRD 5750. Personnel Training and Development. (3-4 cr; A-F only)
Acquiring analysis, design, development, implementation, and evaluation skills.

HRD 5751. Motivational Training Practices. (3 cr)
Assessing need for, planning, developing, delivering, and appraising results of motivational training and development that involve motivational theory, principles, and practices.

HRD 5752. Technical Skills Training. (4 cr, §BIE 5752; A-F only)
Analysis of technical skills training practices in business and industry. Systems and process analysis and troubleshooting work behavior; design methods and developing training materials.

HRD 5760. Organization Development. (3-4 cr; A-F only)
Introduction to major concepts, skills, and techniques.

HRD 5761. Team Building in Organizations. (3 cr)
Introduction to theories and techniques for building effective work teams. Skill development in facilitating team-building activities.

HRD 5762. Management of Conflict. (3 cr; A-F only)
Types, sources, and diagnosis of conflict styles; skills and strategies for managing interpersonal, intergroup, and intragroup conflict.
HRD 5770. Human Resource Development Special Topics. (1-4 cr)
Developments related to problems; practices; programs; methodologies in training and development. Content will vary with each offering.

HRD 5780. Internship: Human Resource Development. (Cr ar [max 15]; prereq 5750; S-N only)
Students apply and contract for training or organization development positions; contracts describe specific training and development responsibilities to be fulfilled during internship.

HRD 5781. International Field Study in Human Resource Development. (4 cr)
Training, organization development, career development, and quality improvement theories and practices in selected nations.

HRD 5790. Strategic Planning in Human Resource Development. (3-4 cr; prereq 5750 or 5760; A-F only)
Human capital as component of organizational strategic planning; analyzing and articulating practices.

HRD 5792. Managing Human Resource Development. (3 cr; prereq 5750, 5760 or #)
Managing and leading human resource development activities in industry, business, and government to meet organizational objectives. Emphases on mission, staffing, resources, systems, process management, and reporting.

HRD 5793. International Human Resource Development. (4 cr)
Problems, practices, programs, theories, and methodologies in human resource development as practiced internationally and in cross-cultural settings.

HRD 5794. Consulting in Human Resource Development. (3 cr; prereq 5750 or 5760 or #)
Analyzing marketing, subject matter expertise, organization, business principles, and communication skills as elements of consulting in business and industry human resource development.

Quality management and productivity improvement strategies from a training and organization development (OD) perspective. Specific OD interventions to implement three selected quality management strategies. Not a statistical process control class.

HRD 5798. Current Issues in Human Resource Development. (4 cr; prereq 5750, 5760 or #)
Issues currently confronting practitioners in training and organization development, with examination of conflicting view points and resolution options.

HRD 5808. Diversity Issues and Practices. (3 cr, §VoEd/WCFE 5808; A-F only)
Collaborative diversity-related issues among educators and human resource development personnel. The nature of diverse populations, their unique learning/training needs, and effective diversity-related practices.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

HRD 8750. Advanced Theories in Human Resource Development

KINESIOLOGY AND LEISURE STUDIES
See Kinesiology (Kin), Physical Education (PE), and Recreation, Park, and Leisure Studies (Rec).

KINESIOLOGY (KIN)
KINESIOLOGY AND LEISURE STUDIES
Courses numbered above 1500 apply to undergraduate, licensure, and certification programs in kinesiology and are listed under kinesiology in the Class Schedule. All courses that can be applied to licensure programs in coaching, developmental/adapted physical education, and physical education are designated with Physical Education Licensure (PEL). Students taking courses with a high level of energy expenditure should check with a personal physician if they are unsure of their capacity to perform required activities.

Kin 1871. Introduction to Kinesiology. (3 cr; A-F only) (PEL)
Professional and disciplinary dimensions of studying physical activity; theoretical application to human movement.

Kin 1990. Directed Study. (1-6 cr; prereq #; A-F only)
For students majoring in kinesiology who wish to study a topic or problem under tutorial guidance.

Kin 1999. Active Wellness: Individuals and Communities. (3 cr; A-F only)
Health issues, individual health as a function of multiple factors, promoting health and preventing health problems in individuals and communities.

Kin 3001. Lifetime Fitness and Health. (4 cr; A-F only)
Overview of personal health, nutrition, weight control, stress management, and regular fitness habits that provide a base of action and knowledge for surviving the rigors of school and living a longer and healthier life.

Kin 3110. Human Anatomy. (3 cr; A-F only) (PEL)
Emphasis on bones, nerves, and muscles and their significance on physical education.

Kin 3111. Mechanics of Movement. (3 cr; prereq CBN 1027, ed student or #; A-F only) (PEL)
Structure of the body; principles and mechanics of bodily movements.
Kin 3112. First Responder for Athletic Coaches and Athletic Trainers. (3 cr; A-F only) (PEL)
Nationally recognized First Responder curriculum tailored to meet needs of the injured amateur or professional athlete. Lecture and skills format focuses on preparing coach and/or trainer to recognize and initially stabilize the injured athlete. Successful completion entitles participant to First Responder certification. Course includes AHA CPR training.

Kin 3114. Prevention and Care of Athletic Injuries. (3 cr; prereq 3110 or CBN 1027, CEHD student or #; A-F only) (PEL)
Policies for conditioning athletes in interscholastic and intercollegiate sports; safety controls.

Kin 3115. Physiological Application to Sports. (3 cr, §3386; prereq human anatomy or #; A-F only) (PEL)
Muscular contraction for strength development programs; contributions of training programs to endurance, speed, and skill acquisition; influence of training on the cardiovascular system; fatigue and recovery; early season training, pregame meals and ergogenic aids in athletics.

Kin 3131. History and Philosophy of Kinesiology and Sport. (4 cr; prereq kin major or #) (PEL)
Introductory description and interpretation of development of physical education and sport from primitive to 20th-century civilization.

Kin 3132. Motor Development. (3 cr; prereq kin major or #; A-F only) (PEL)
Changes in movement skills, movement performance, and physical growth across the life span.

Kin 3135. Motor Learning and Human Performance. (3 cr; prereq kin major or #; A-F only) (PEL)
Concepts and principles of movement skill learning and factors that influence movement skill performance.

Kin 3143. Organization and Management of Sport and Physical Education. (3 cr; prereq 2-cr coaching course, kin major or #; A-F only) (PEL)
Principles, policies, and procedures involved in the conduct of physical education and sport.

Kin 3150. Introduction to Evaluation. (4 cr; prereq kin major or #; A-F only) (PEL)
Selecting, administering, and using human performance tests to evaluate kinesiology.

Kin 3169. Volleyball Coaching. (2 cr; prereq PE 1174 or #; A-F only) (PEL)
Professional preparation emphasizing philosophies, skills, strategies, and responsibilities.

Kin 3170. Baseball Coaching. (2 cr; A-F only) (PEL)
Techniques of playing each position, batting, coaching runners, and team play; study of rules; officiating methods and practice; organization of practices.

Kin 3171. Basketball Coaching. (2 cr; A-F only) (PEL)
Techniques, styles of offense and defense, conditioning and handling of players.

Kin 3172. Football Coaching. (2 cr; A-F only) (PEL)
Techniques and orientation, strategy, generalship, styles of offense and defense, methods of organizing practices and handling players.

Kin 3174. Gymnastics Coaching. (2 cr; A-F only) (PEL)
Analysis of elementary through advanced stunts in tumbling, floor exercise, and on trampoline, side horse, parallel bars, still rings, and long horse; emphasis on teaching and techniques. Aspects of legal liability, budget, scheduling, regulations, training, research; purchase and care of equipment and constructing gymnastics gymnasiums.

Kin 3175. Ice Hockey Coaching. (2 cr; A-F only) (PEL)
Techniques of and orientation to coaching high school hockey; planning and conducting practices, team offense and defense; drills to develop individual skills; conditioning.

Kin 3176. Swimming and Diving Coaching. (2 cr; A-F only) (PEL)
Instruction in and practice of the basic techniques used in competitive swimming and diving; rules and regulations governing staging of competition.

Kin 3177. Tennis Coaching. (2 cr; A-F only) (PEL)
Techniques and orientation, methods and organization; emphasis on high school and college levels; coverage of coaching techniques, analysis of strokes, and organization of practice sessions.

Kin 3178. Track and Field Coaching. (2 cr; prereq PE 1059 or #; A-F only) (PEL)
Techniques of performance in all standard events; methods of coaching; organization of track meets; study of rules; officiating methods and practice.

Kin 3179. Wrestling Coaching. (2 cr; A-F only) (PEL)
Analysis of the moves, combinations, and sequences; training, safety, and health features; administrative responsibilities of the coach; review of the literature.

Kin 3180. Athletic Training Laboratory. (1 cr; prereq 3114; A-F only)
Lab for Kin 3114. For future coaches and athletic trainers. Taping techniques for athletic injury and reinjury prevention; principles of injury recognition and management.

Kin 3327. Teaching Physical Education in the Elementary School. (3 cr; prereq elem ed major; A-F only)
Overview of the elementary physical education program; primarily a laboratory course, with participation in representative physical education activities for children; opportunities for observation of children, microteaching, skill analysis, and group discussion.

Kin 3371. Soccer Coaching. (2 cr; prereq PE 1072 or #; A-F only) (PEL)
Styles, systems, training techniques, psychological aspects of soccer; fundamental approaches and tactics in coaching soccer.
Kin 3385. Exercise Physiology I. (4 cr; prereq CBN 1027 or equiv, kin major or #: A-F only) (PEL)
Physiological considerations of the human organism including nature and functions of the cell, transport, energy production, body fluids, and introductory aspects of nervous, circulatory, and muscular functions with reference to exercise.

Kin 3386. Exercise Physiology II. (4 cr; §3115; prereq 3385 or equiv, kin major or #: A-F only) (PEL)
Physiological considerations of the human organism including nature and function of the kidney, regulation of water and acid balance, function of hormones, exercise and heart and lung function; special reference to acute and chronic effects of training on cardiorespiratory systems.

Kin 3624. Student Teaching: Coaching. (3 cr; prereq #: S-N only) (PEL)
Student coaching experience under the supervision of a mentor coach. Required of candidates for coaching licensure or minor.

Kin 3625. Supervised Practical Experience. (1-12 cr [max 12]; prereq #: S-N only) (PEL)
On-the-job experience under a specialist in the particular area of study.

Kin 3900. Directed Study. (1-12 cr [max 12]; prereq #: A-F only)
Self-directed study preceded by classroom study and possession of basic competence.

Kin 5100. Developmental/Adapted Physical Education. (3 cr; A-F only) (PEL)
Physical education for students with disabilities, emphasizing administration, assessment, curriculum, history, legal mandates, and resources.

Kin 5101. Physical Activities for Persons With Disabilities. (3 cr; A-F only) (PEL)
Adaptation of physical activities for persons with disabilities, emphasizing application of current movement science research.

Kin 5102. Practicum: Developmental/Adapted Physical Education. (1-6 cr [max 6]; prereq 5100; S-N only) (PEL)
Observation of and participation in physical education instruction for students with disabilities; includes seminar component for discussion of current issues in developmental/adapted physical education and exchange of ideas and problems.

Kin 5106. Adapted Aquatics. (2 cr; prereq current American Red Cross Water Safety Instructor or equiv YMCA certification to receive Adapted Aquatic Instructor certification; if no certification desired, no prereqs)
Approaches to teaching aquatics, aquatic programming options, accommodations and adaptations for persons with disabilities, organization and administration, resources, assessments, and individualized education plans.

Kin 5111. Sports Facilities. (3 cr, §Rec 5111; prereq kin or rec major or #: A-F only)
Planning areas and facilities for athletics, physical education, and sport, emphasizing current trends and problems.

Kin 5120. Advanced Biomechanics. (4 cr; prereq biomechanics, 3111 or #: A-F only) (PEL)
Principles of mechanics applied to human movement, analysis of motor skills, application to individual projects.

Kin 5121. Contributions of Basic Science to Kinesiology. (3 cr; A-F only)
Recent research in related physical sciences; applications in selected areas.

Kin 5122. Applied Exercise Physiology. (3 cr; prereq 3386 or equiv or #: PEL)
Application of concepts in human physiology to exercise physiology, sports training, and physical activities with particular reference to respiratory and cardiovascular systems.

Kin 5124. Human Factors Physiology. (3 cr; A-F only)
In-depth view of concepts, problems, and issues associated with ergonomic improvements to the design and operation of human work space. Appraisal and evaluation of existing ergonomic tools and methodologies. Hands-on experience in critiquing and redesigning existing systems, principles necessary for designing more efficient future systems.

Kin 5125. Advanced Psychological and Sociological Dimensions of Physical Activity. (3 cr; prereq kin major or #: A-F only) (PEL)
Advanced insight into the substance, nature, and significance of these dimensions of physical activity; focus on current research, issues, and trends as well as potential practical contributions.

Kin 5127. Observation and Analysis of Teaching Physical Activity. (3 cr; prereq PEL or sr kin major or MA or MEd student or #: A-F only)
Develop skills using observation and supervision tools to analyze physical activity teaching/coaching.

Kin 5132. Motor Development. (3 cr, §CPsy 5322; prereq 3132 or #: A-F only) (PEL)
Developmental aspects of movement skill learning across the life span, emphasizing processes underlying skill changes.

Kin 5135. Motor Learning and Human Performance. (3 cr; prereq 3135 or #: A-F only) (PEL)
Theories of movement skill learning, coordination, and control, with applications to human performance.

Kin 5136. Psychology of Coaching. (3 cr; A-F only)
Psychological aspects of coaching, including leadership and communication skills, motivation, and mental skills training for performance enhancement.
Kin 5140. Biomechanics of Sport Safety. (3 cr; prereq undergrad kin major; A-F only)
Forces and torques developed in sports activities; tolerances of the human body; techniques for preventing injury; design of protective equipment.

Kin 5141. Nutrition for Exercise and Physical Performance. (3 cr; prereq 3115 or FScN 1612 or equiv)
Application of basic nutritional principles to active populations, current issues related to dietary modifications for the possible improvement of physical performance, and strategies for educating clientele about nutrition and physical performance.

Kin 5151. Curriculum Implementation. (3 cr; prereq admission to init lic/MEd PE program or #; A-F only) (PEL)
For initial licensure students and those without previous teaching experience: objectives, organization, task analysis, teaching styles, and assessment.

Kin 5152. Curriculum Development. (3 cr; prereq admission to init lic/MEd PE program or #; A-F only) (PEL)
Trends, issues, and problems at selected levels of interest: elementary, secondary, junior college; for beginning and experienced teachers.

Kin 5170. Foundations of Kinesiology. (3 cr; prereq grad or MEd student; A-F only)
Establishing guidelines for individual and group professional action; examining pertinent social forces, educational philosophies, and general ethics.

Kin 5328. Proseminar: International and Comparative Sport and Physical Education. (4 cr; prereq 3131 or #; A-F only)
Secondary literature detailing and interpreting development and cultural integration of sport and physical education in the global marketplace.

Kin 5371. Sociology of Sport. (4 cr, §Soc 5371; prereq kin major or #; A-F only)
Sport within and among societies and nations; social organizations: socioeconomic development, contemporary structure, personnel, fans; relationship to other institutions: economy, education, family, government, religion; social differentiation: status, ethnicity, gender, age, careers; ethical and social problems: honesty and violence.

Kin 5375. Competitive Sport for Children and Youth. (3 cr; A-F only)
Cognitive, behavioral, and biological factors affecting competitive sport participants from early childhood through high school. Emphasis on translating sport science research into practical applications for youth sport coaches, teachers, and administrators.

Kin 5380. Computer Applications in Kinesiology. (3 cr; prereq kin major or #; A-F only)
Potential uses of computers in testing and research; introduction of such topics as hardware selection, interfacing of computers and data acquisition devices, and management of data for analysis and presentation.

Kin 5385. Exercise for Special Populations. (3 cr; prereq undergrad-level physiol or biol; A-F only) (PEL)
Problems associated with exercise for persons with various conditions or diseases such as arthritis, cancer, diabetes, mental disorders, obesity, old age, or paralysis. Recommended exercise prescriptions and potential benefits for special populations.

Kin 5387. Detection and Prevention of Coronary Heart Disease. (4 cr; prereq 3386 or equiv or #; A-F only)
Introduction to causes, detection, and prevention of major cardiovascular diseases emphasizing risk factor identification and modification, role of exercise in prevention, and measurement and interpretation of exercise electrocardiograms.

Kin 5388. Exercise Testing, Conditioning, and Cardiac Rehabilitation. (4 cr; prereq 3386 or equiv, 5387 or #; day school students must regis A-F) Administration and interpretation of exercise tests, cardiopulmonary resuscitation, and exercise prescription; survey of exercise programs for apparently healthy adults and CHD patients; familiarization with principles for establishment of intervention and rehabilitative programs.

Kin 5389. Practical Experience in Graded Exercise Testing, Prescription, and Direction. (3-6 cr [max 6]; prereq 5388 or #; A-F only)
Supervised on-site training in testing, prescription, and direction of programs for adults.

Kin 5455. Recreational Sports. (3 cr, §Rec 5455; prereq kin or rec major or #; A-F only)
Recreational sports programming and participation; in-depth view of recreational sports, its foundations programs, and operational considerations.

Kin 5460. Foundations of Sport Management. (3 cr, §Rec 5460; prereq rec or kin major or #; A-F only)
Principles of sport management and fitness, including theories and techniques in marketing, administration, and management of sport enterprises. Organizational theory and policy with practical examples of sport management skills and strategies.

Kin 5510. Women in Sport and Leisure. (3 cr, §Rec 5510; A-F only)
Historical, cultural, philosophical, and sociopsychological factors that have shaped the growth and development of women's involvement in sport and leisure, as well as obstacles preventing further involvement.

Kin 5521. Pedagogy I: Elementary Physical Education. (6 cr; prereq init lic/MEd student; A-F only) (PEL)
Class planning, structuring, communicating, and management; evaluating the role of the K-6 physical educator in diverse settings.

Kin 5522. Pedagogy II: Secondary Physical Education. (6 cr; prereq init lic/MEd student; A-F only) (PEL)
Class planning, structuring, communicating, and management; evaluating the role of the grade 6-12 physical educator in diverse settings.
Kin 5530. Biological and Physical Foundations of Education. (2 cr; prereq FoE or ed tchr lic program student; A-F only) Overview of biological and physical development from birth through adulthood and the relationship of this development to education.

Kin 5540. Technology in Sport and Physical Education. (3 cr; prereq kin student or #; A-F only) Current technology, including computer and video, used to develop materials for physical education and sports science. Software and video reviewed and evaluated.

Kin 5561. Clinical Experience I: Physical Education. (6 cr; prereq 5521, 5522, admission to init lic/MEd PE program or #; S-N only) (PEL) Supervised observation and teaching in school physical education.

Kin 5562. Clinical Experience II: Physical Education. (6 cr; prereq 5561, admission to init lic/MEd PE program or #; A-F only) (PEL) Supervised teaching in school physical education.

Kin 5563. Clinical Experience III: Physical Education. (9 cr; prereq 5562, admission to init lic/MEd PE program or #; A-F only) (PEL) Supervised teaching in school physical education.

Kin 5620. Advanced Athletic Training. (3 cr; prereq 3114, CBN 1027, kin major or #; A-F only) (PEL) Overview of problems (recognition, evaluation, assessment techniques) related to athletic injuries. Clinical instruction in advanced training techniques and implementations.

Kin 5720. Topics in Kinesiology. (1-12 cr [max 12]; prereq #; A-F only) Current issues as they relate to kinesiology and applied activities.

Kin 5740. Workshop: Coaching of Individual, Dual, or Team Sports. (1-12 cr [max 12]; A-F only) (PEL) Instruction at the advanced level, including analyses of skills, game strategies, specific techniques of coaching, and methods of training and conditioning.

Kin 5860. Legal Aspects of Sport and Physical Activity. (4 cr, §Rec 5860; prereq 3143 or 5460 or Rec 3550, kin or rec major or #; A-F only) Survey of legal considerations involved in sport and physical activity programs in schools, colleges, and the private sector.

Kin 5980. Research Methodology. (3 cr, §Rec 5980; prereq KLS or MEd student or #; A-F only) (PEL) Methods and design for research in kinesiology and leisure studies.

Kin 5981. Problems. (Cr ar; prereq MEd candidate, #; A-F only) (PEL) Focus on teaching of physical education.

Kin 5983. Readings: Kinesiology. (Cr ar [max 9]; prereq CEHD or grad student, #; A-F only) Independent study under tutorial guidance.

Kin 5985. Applications of Research. (3 cr; prereq ed or grad student; A-F only) (PEL) Survey of strategies and techniques for applying and interpreting research related to physical education in the public school setting.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

Kin 8126. Seminar: Psychological and Sociological Dimensions of Physical Activity

Kin 8128. Psychology of Sport

Kin 8132. Seminar: Motor Development

Kin 8135. Seminar: Motor Learning and Human Performance

Kin 8320. Seminar: Biomechanics

Kin 8381. Exercise Physiology: Research Techniques

Kin 8382. Biomechanics: Research Techniques

Kin 8607. Comparative Physical Education and Sport

Kin 8666. Doctoral Pre-Thesis Credits

Kin 8777. Thesis Credits: Master's

Kin 8888. Thesis Credits: Doctoral

Kin 8980. Graduate Research Seminar

Kin 8981. Research Problems

Kin 8985. Seminar: Contemporary Problems

MATHEMATICS EDUCATION (MTHE)
CURRICULUM AND INSTRUCTION

MthE 5010. Teaching Mathematics: Arithmetic Structures. (3 cr, §5081; prereq 5000, §5610, math ed student or #; A-F only) Pedagogy, content, and instructional strategies for teaching arithmetic. Content and issues relevant to the K-8 mathematics curriculum. Instructional materials and technology appropriate for secondary school arithmetic.

MthE 5020. Teaching Mathematics: Algebraic Structures. (3 cr, §5082; prereq 5010, §5610, §5620, math ed student or #; A-F only) Pedagogy, content, and instructional strategies for teaching algebra. Content and issues relevant to the algebra curriculum. Instructional materials and technology appropriate for algebra.
MthE 5030. Teaching Mathematics: Geometric Structures. (3 cr; §5083; prereq 5020, 5620, §5630, math ed student or #; A-F only)
Pedagogy, content, and instructional strategies for teaching geometry. Content and issues relevant to the geometry curriculum. Instructional materials and technology appropriate for geometry.

MthE 5040. Teaching Mathematics: Advanced Topics. (3 cr; prereq 5030, 5630, math ed or grad student or #; A-F only)
Pedagogy, content, and instructional strategies for teaching advanced topics: trigonometry, analysis, calculus, probability, statistics, discrete mathematics. Content and issues relevant to the advanced mathematics curriculum. Instructional materials and technology appropriate for advanced mathematics.

MthE 5081. Teaching Arithmetic in the Secondary School. (3 cr, §5010; prereq math ed major or minor or #, Math 5081 or §Math 5081; A-F only)
Survey of concepts, principles, and processes of the secondary school pre-algebra curriculum; learning difficulties, teaching strategies and alternatives; mathematical foundations of pre-algebra topics.

MthE 5082. Teaching Algebra in the Secondary School. (3 cr, §5020; prereq math ed major or minor, Math 5082 or §Math 5082 or #; A-F only)
Survey of concepts, principles, and processes of the secondary school algebra curriculum; learning difficulties, teaching strategies and alternatives; mathematical foundations of algebra topics.

MthE 5083. Teaching Geometry in the Secondary School. (3 cr, §5030; prereq math ed major or minor, Math 5083 or §Math 5083 or #; A-F only)
Survey of concepts, principles, and processes of the secondary school geometry curriculum; learning difficulties, teaching strategies and alternatives; mathematical foundations of geometry topics.

MthE 5101. Workshop: Elementary School Mathematics. (1-12 cr [max 12]; not open to math ed majors; A-F only)
Modern trends, methods, and materials used to convey mathematical ideas.

MthE 5102. Workshop: Mathematics Education. (1-12 cr [max 12]; prereq ed or grad student; A-F only)
Issues, materials, and instructional techniques focusing on a single current topic of particular relevance to secondary school and college mathematics teachers.

MthE 5150. Topics in Recreational Mathematics. (3 cr; prereq ed or grad student or #; A-F only)
Survey including magic squares; palindromes, repunits, repdigits from number theory; geometric dissections, topological recreations, cryptarthyms; uses as problem solving modes in mathematical classrooms.

MthE 5151. Calculator Use in the Elementary and Middle School. (1-3 cr [max 3]; prereq ed or grad student or #; A-F only)
Structure and function of handheld calculators. Materials and instructional techniques for integrating calculators into daily lessons; evaluating commercial materials; examining research on the use of the calculator in instructional settings.

MthE 5152. Geometry for Primary Grades. (1-3 cr [max 3]; prereq ed or grad student or #; A-F only)
Geometric content and pedagogy for primary grades. Levels of geometric thought, formation of spatial abilities; early childhood concepts from topology, transformational geometry, Euclidean geometry, and applications; dimensional models, construction, planal tessellations.

MthE 5153. Geometry in the Intermediate Grades. (1-3 cr [max 3]; prereq ed or grad student or #; A-F only)
Instructional approaches and physical materials related to teaching informal and intuitive geometric concepts in the intermediate and middle school grades. Fundamental concepts of measurement and geometric relationships in one, two, and three dimensions; measurement systems; estimation; geometric figures and their properties; transformations and symmetry; congruence and similarity.

MthE 5155. Rational Number Concepts and Proportionality. (1-3 [max 3]; prereq ed or grad student or #; A-F only)
Relationships between the role of rational number concepts and the development of proportional reasoning skills. Psychological, instructional, and pedagogical issues concerned with the development of these conceptual areas.

MthE 5157. Probability and Statistics in the Elementary School. (1-3 cr [max 3]; prereq ed or grad student or #; A-F only)
Emerging role of probability and statistics in the elementary school. Principles for systematic observation and techniques for collecting, organizing, representing, and interpreting data.

MthE 5160. Developing Leadership in School Mathematics. (1-3 cr [max 3]; prereq ed or grad student or #; A-F only)
Current developments in the psychology and pedagogy of mathematics education as they relate to the evolving nature of mathematics education objectives. Emerging role of technology in the mathematics curriculum. Effective techniques for developing supervisory abilities.

MthE 5170. Teaching Problem Solving, Reasoning, and Proof. (4 cr; math ed or grad student or #; A-F only)
Fundamental concepts and principles of problem solving, reasoning, and proof. Emphasis on activities and applications appropriate for junior and senior high classes. Pedagogical experiences to prepare teachers to teach problem solving, reasoning, and proof in classrooms.
MthE 5171. Teaching Probability and Statistics. (3 cr; prereq MEd/init lic ed student or #; at least one math course in probability or statistics or combinatorics recommended)
Fundamental concepts and principles of probability and statistics. Emphasis on activities and applications appropriate for junior and senior high school classes. Pedagogical experiences to prepare teachers to integrate quantitative literacy accurately and effectively in classrooms.

MthE 5172. Historical Topics in the Mathematics Classroom. (3 cr; prereq math ed or grad student or #; A-F only)
Historical underpinnings of school mathematics content and methodology. Cross-cultural contributions in the development of mathematical ideas; development of lessons, activities, and materials for school use.

MthE 5312. Teaching and Supervision of Mathematics in the Secondary School. (4 cr; prereq math tchg exper or #; A-F only)
Methods, materials, and curriculum development; principles of learning; review of research; preparation and evaluation of tests, units, and materials of instruction.

MthE 5313. Teaching and Supervision of Mathematics in the Middle School. (4 cr; prereq elem or sec school lic; A-F only)
Mathematics objectives, concepts and principles, skills and processes; instructional alternatives including calculators and microcomputers; applications of mathematics to individual differences; evaluation techniques to improve instruction and learning in middle school.

MthE 5332. Current Trends and Issues in School Mathematics. (4 cr; prereq 5312 or #; A-F only)
Recent developments in mathematics curriculum and instructional alternatives; issues in teaching and learning: providing for special student needs; program planning and evaluation.

MthE 5355. Mathematics for Diverse Learners. (4 cr; prereq CI 5821 or #; A-F only)
Units of instruction emphasizing mathematical concepts essential for vocational competence; experimental materials and methods to improve performance of low achievers.

MthE 5366. Technology-Assisted Mathematics Instruction. (4 cr; prereq CI 5362 or CISy 5006 or equiv, math ed or grad student or #; A-F only)
Technology, including computers, programmable and graphing calculators, and video, as instructional tools in mathematics; design and evaluation of technology-based mathematics lessons; the effect of technology on the mathematics curriculum; managing the technology-enriched classroom.

MthE 5540. Seminar: Teaching Secondary Mathematics. (3 cr; prereq math ed student or #; A-F only)
Analysis of half-day student teaching. Development of observational, classroom management, and communication skills. Application of instructional techniques from 5010, 5020, 5030, 5040.

MthE 5610. Clinical Experiences in Teaching Arithmetic. (2 cr; prereq ¶5010, 5600, math ed student or #; S-N only)
Observing and participating in arithmetic classes. Supervised microteaching and peer teaching. Developing observational, classroom management, and communication skills.

MthE 5620. Clinical Experiences in Teaching Algebra. (2 cr; prereq ¶5020, 5610, math ed student or #; S-N only)
Observing and participating in algebra classes. Supervised microteaching and peer teaching. Developing observational, classroom management, and communication skills.

MthE 5630. Clinical Experiences in Teaching Geometry. (2 cr; prereq ¶5030, 5620, math ed student or #; S-N only)
Observing and participating in geometry classes. Supervised microteaching and peer teaching. Developing observational, classroom management, and communication skills.

MthE 5640. Half-Day Student Teaching in Mathematics. (6 cr; prereq ¶5540, math ed init lic/MEd student; S-N only)
Student teaching in secondary mathematics classes.

MthE 5650. Full-Day Student Teaching in Mathematics. (12 cr; prereq 5540, 5640, math ed MEd/init lic student or #; S-N only)
Student teaching in secondary mathematics classes.

MthE 5680. Practicum in Mathematics Education. (3-9 cr [max 9]; prereq #: A-F only)
Supervised experience in teaching or related work in school.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

MthE 8500. Theory and Classical Research in Mathematics Education

MthE 8570. Research: Mathematics Education

MthE 8590. Seminar: Mathematics Education

MthE 8680. Internship: Mathematics Education

MthE 8980. Problems: Mathematics Education

MUSIC EDUCATION (MUED)
Other 3xxx music education courses, including those in music therapy, can be found in the CLA Bulletin.

MuEd 1201. Introduction to Music Education. (1 cr)
Orientation to various areas and levels of music teaching through observation and school-centered experiences.

MuEd 1801. Introduction to Music Therapy. (1 cr)
Survey exploring methods, materials, and applications of music therapy in various clinical settings with emphasis on field observations.
MuEd 3011. Teaching Music in the Elementary School. (4 cr; prereq Mus 1001, elem ed major)
For non-music majors; methods and materials in teaching singing, rhythm, music reading, creativity, classroom instruments, fundamentals, music appreciation in K-6.

MuEd 5111. Research in Music Education: Bibliography. (3 cr)
Sources, materials, and techniques.

MuEd 5112. Research in Music Education: Techniques. (3 cr)
Methods and techniques in investigating and reporting music education problems; review of significant research and proposal development.

MuEd 5115. Research in Music Education: Measurement. (3 cr) McCoy
Principles of measurement and assessment; survey of testing materials and assessment methods.

MuEd 5211. Philosophical Foundations of Music Education. (3 cr)
Analyzing and interpreting philosophies of music and education as applied to the teaching of music.

MuEd 5214. Psychological Foundations of Music Education. (3 cr)
Analyzing and interpreting psychologies of music and education as applied to the teaching of music.

MuEd 5217. Historical Foundations of Music Education. (3 cr)
Analyzing and interpreting important elements in modern music teaching derived from the past.

MuEd 5313. Influence of Music on Youth Behavior. (3 cr)
How music influences human behavior; effects of commercial styles on children and youth. Particularly appropriate for teachers and parents.

MuEd 5606. Movement-Based Methods for Music Education. (3 cr)
Participation in movement activities; Dalcroze philosophy and techniques; applications of movement to music education; examination of relevant research.

MuEd 5611. Teaching Music With Related Arts. (3 cr) Haack
Techniques and materials for teaching music in cultural context, including other art forms.

MuEd 5612. Multicultural Music for Teachers. (3 cr) Haack
For teachers of all subject areas. Educational uses of music from various cultures, including American subcultures; music and sociocultural values; cross-cultural uses and functions of music; develop materials for classroom use.

MuEd 5621. Supervision and Administration of School Music. (3 cr)
Analysis and evaluation of instructional, supervisory, and administrative techniques; readings, new trends.

MuEd 5633. Techniques and Materials: Choral Ensembles. (3 cr)
Empirical research and literature on voice development in individual, class, and choral work; instructional techniques for choral music classes; choral repertoire for varied ensembles.

MuEd 5647. Teaching the Percussion Instruments. (3 cr) Meza
Practical performance, demonstrations, and discussions of research in performance techniques. Contemporary approaches for teaching in the schools.

MuEd 5655. New Dimensions in Music Education. (3 cr)
Study of contemporary music education through analysis of recent curricular trends and current issues.

MuEd 5666. Microcomputers in the Music Classroom. (3 cr)
Using the microcomputer to enhance instruction; materials for theory, ear training, composition, electronic music; developing a database for music libraries, instrument inventories, budgets.

MuEd 5667. Computer-Based Music Instruction. (3 cr)
Designing, developing, and implementing computer applications for music classroom, emphasizing the Hypercard environment with interactive audio, video, and MIDI.

MuEd 5668. Computerized Music Notation. (3 cr)
Fundamentals of music notation and printing using Macintosh computer, MIDI keyboards, and Finale software. Preparing instrumental and vocal scores, part extraction, and page layout.

MuEd 5669. Conducting the Musical Show. (3 cr)
Rehearsal techniques, coordination of singing actors and instrumental accompaniment, conducting the pit orchestra; laboratory performance and listening activities focused on traditions and trends in the musical theater.

MuEd 5750. Topics in Music Education. (1-6 cr [max 12])
Selected topics in music education.

MuEd 5802. Psychology of Music II. (4 cr; prereq 3801)
Elements of music and their psychological effects; musical ability and its measurement; research methods applied in psychology of music studies.

MuEd 5804. Music in Therapy. (3 cr; prereq music ed or music therapy grad or #)
Survey of principles and methods related to public school, hospital, and other community mental health and education settings; observation and lab sessions.

MuEd 5821. History of Music Therapy. (3 cr)
Historical development of profession; outstanding persons and their contributions; incorporation of technique in increasing number of treatment populations.

MuEd 5831. Music for Exceptional Children. (3 cr)
Trends; methods and materials for a functional program of singing, playing, rhythm, listening, and creative activities for mentally and physically handicapped and gifted pupils.
MuEd 5970. Independent Study. (1-4 cr; prereq music ed/therapy or grad student, #, Δ) Independent study project organized by the student in consultation with the appropriate instructor.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

MuEd 8281-8282-8283. Seminar: Historical, Philosophical, and Psychological Issues

MuEd 8880. Master’s Research Project

MuEd 8990. Research Problems

PHYSICAL EDUCATION (PE)
KINESIOLOGY AND LEISURE STUDIES

Physical education activity courses are offered on successive levels in each of the following areas.

Aquatics
Conditioning
Dual sports and activities
Individual sports and activities
Team sports

The beginning courses, listed first in numerical order, require no prerequisite. For courses at more advanced levels, prerequisites are indicated, but students with skills or experience in a given area may start with one of the more advanced offerings rather than register for the prerequisite course. Consult an adviser in Cooke Hall about the appropriate level for registration. Both the A-F and S-N options are available for all PE courses numbered through 1499.

Students who do not attend the first and/or second meeting of a class for which enrollment is limited forfeit their place. If a class in which enrollment is limited is closed at the time of registration, a student must attend either the first or second class meeting. If by the second class meeting there is an open place, the student may obtain a magic number to register.

All courses involve participation requiring a high energy expenditure and are to be considered intensive except bowling, golf, and posture and individual exercise, which involve a lower level of energy expenditure and are considered moderately intensive. It is recommended that students know their health status and any limitations on their ability to participate safely in the physical activities involved in the course in which they plan to register. Students who have questions about their health status should seek advice from a personal physician.

PE 1004. Diving, Springboard. (1 cr; prereq 1007 or #) Elementary entry into water, teaching diving at the beginning level, basic dives.

PE 1007. Swimming. (1 cr; prereq non-swimmer) For the beginner, including breathing, floating, treading water, elementary back stroke, side stroke, and front crawl.

PE 1014. Conditioning. (1 cr) Improvement of physical fitness through running, circuit training, and progressive exercise.

PE 1015. Weight Training. (1 cr) Fundamentals, including techniques, theory, and individualized exercise programs.

PE 1016. Posture and Individual Exercise. (1 cr; moderate intensity) Individually prescribed exercises for increased muscular strength, improvement of posture and weight control.

PE 1029. Handball. (1 cr) Basic fundamentals of skills and shots; rules and game strategy.

PE 1031. Saber Fencing. (1 cr) Development of physical and perceptual skills for fencing; techniques of the saber; history, rules, practical bouting experience.

PE 1032. Badminton. (1 cr) Emphasis on fundamental skills, rules, etiquette, and strategy for both singles and doubles.

PE 1033. Foil Fencing. (1 cr) Developing necessary physical and perceptual skills; history, rules, and practical bouting experience included.

PE 1034. Judo. (1 cr) Basic skills, including falls, hold-downs, chokes, throwing and counter techniques.

PE 1035. Karate. (1 cr) Emphasis on learning basic stances, blocks, and attacks; hand and foot techniques.

PE 1036. Racquetball. (1 cr) Fundamentals of skills and shots; rules and game strategy.

PE 1037. Squash Racquets. (1 cr) Fundamental strokes and rules with game situations emphasized.

PE 1038. Tennis. (1 cr) Fundamental strokes of service, forehand and backhand drives, and volley; court positions and strategy for singles and doubles; rules, terminology, etiquette.

PE 1041. Cycling. (1 cr; prereq supply own bicycle) Basic skills; physiological and mechanical principles; maintenance, safety, training.

PE 1042. Orienteering. (1 cr) Fundamental skills including land navigation, terrain analysis, fitness.
PE 1044. Self-Defense. (1 cr)
Fundamental skills; development of basic techniques and values from active participation in physical activity.

PE 1048. Bowling. (1 cr; moderate intensity)
For the beginning student. Fundamentals of stance, approach and delivery, scoring, bowling terminology, and etiquette.

PE 1050. Golf. (1 cr; moderate intensity)
Fundamentals; grip, stance, and swing; etiquette and maintenance.

PE 1052. Rifle Marksmanship. (1 cr; moderate intensity)
Rifle and pistol marksmanship; weapons safety and maintenance.

PE 1053. Ice Skating. (1 cr)
Basic techniques: forward stroking, backward stroking, stops and turns.

PE 1056. Nordic (Cross-Country) Skiing. (1 cr)
Basic techniques; participation in exercise and conditioning program preparatory to skiing.

PE 1057. Skiing. (1 cr)
Basic skills in skiing and safety; care and purchase of equipment.

PE 1059. Track and Field. (1 cr)
Fundamentals and strategy in sprint, distance, and field events.

PE 1060. Tumbling and Floor Exercise. (1 cr)
Development of basic skills.

PE 1067. Basketball. (1 cr)
Fundamentals of offense and defense; elementary team play and game strategy.

PE 1070. Ice Hockey. (1 cr; prereq 1053 or equiv)
Basic skills of goal tending, individual and team defensive, and offensive techniques, conditioning.

PE 1072. Soccer. (1 cr)
Strategy, rules, and fundamentals emphasized through drills and team play; basic techniques and ball skills, introduction to laws of the game, and experience in match play.

PE 1073. Softball. (1 cr)
Fundamental skills and tactics: throwing, catching, batting, running, basic conditioning, and game play.

PE 1074. Volleyball. (1 cr)
Fundamental skills and rules of volleyball; basic team play and strategy.

PE 1107. Intermediate Swimming. (1 cr; prereq proficient ability to swim 100 meters)
Deep water skills, elementary back stroke, side stroke, front crawl, back crawl, elementary diving, and distance swimming.

PE 1135. Intermediate Karate. (1 cr; prereq 1035 or equiv)
Advanced development of basic skills plus beginning practice of Kumite (basic sparring); introduction to first kata (form).

PE 1136. Intermediate Racquetball. (1 cr; prereq 1036 or equiv)
Advanced techniques and shots in context of game strategy.

PE 1138. Intermediate Tennis. (1 cr; prereq 1038 or equiv)
Improvement of basic skills, increased emphasis on single and doubles strategy and competitive play.

PE 1154. Figure Skating. (1 cr; prereq 1053 or equiv)
Emphasis on basic school figures.

PE 1157. Intermediate Skiing. (1 cr; prereq 1057 or equiv)
Individual and small group instruction to develop advanced skills.

PE 1160. Intermediate Tumbling and Floor Exercise. (1 cr; prereq 1060 or equiv)
Intermediate skills.

PE 1174. Intermediate Volleyball. (1 cr; prereq 1074 or equiv)
Review of fundamental and advanced skills, including offensive and defensive strategy and competitive play.

PE 1205. Scuba and Skin Diving. (1 cr; prereq 1107 or equiv)
Initial course. Can lead to certification (extra time and cost involved).

PE 1306. Lifeguard Training. (1 cr; prereq proficient ability to swim 500 meters)
Focus on knowledge and skills necessary to save own life or life of another.

PE 1410. Water Safety Instructor. (2 cr; prereq proficient ability in four basic strokes, successful completion of skill and written pretests)
Advanced lifesaving technique and teaching strategies.

PE 1415. Theory and Practice of Weight Training and Conditioning. (2 cr; prereq 1014, 1015 or #)
Advanced development of skills, techniques, knowledge, and understanding.

PE 1497. Directed Study. (1-6 cr; prereq 3 cr physical ed, #)
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For the nonprofessional student who wishes to study a topic or problem under tutorial guidance.
RECREATION, PARK, AND LEISURE STUDIES (REC)

KINESIOLOGY AND LEISURE STUDIES

Rec 1520. Orientation to Leisure and Recreation. (4 cr; A-F only)
Examination of the history and development of the park and recreation movement; sociological, economical, psychological, and political considerations of leisure and recreation in contemporary societies; orientation to the professional field.

Rec 1540. Camp Counseling. (4 cr; A-F only)
Practical experience in all phases of camping; introduction to camping and outdoor education for prospective counselors.

Rec 1600. Leadership in Social Activities. (3 cr; A-F only)
Techniques of leadership in social games, parties, dances, outings.

Rec 3150. Leadership in Outdoor Recreation. (3 cr; A-F only)
Identity and scope of outdoor recreation programs.

Rec 3530. Recreation and Park Areas and Facilities. (4 cr; prereq 1520, rec major or #; A-F only)
Basic principles of planning leisure facilities; effective application of standards in planning, design, and construction.

Rec 3540. Recreation Programming. (4 cr; prereq 1520, rec major or #; A-F only)
Principles of program planning and leadership in all aspects of recreation.

Rec 3550. Park and Recreation Administration. (4 cr; prereq 3530, 3540 or #, rec major; A-F only)
Principles and practices in the delivery of park and recreation services.

Rec 3700. Senior Internship. (1-15 cr; prereq sr rec major or minor; S-N only)
Supervised field-based experience for preprofessionals in selected agencies.

Rec 3900. Directed Study. (1-3 cr [max 9]; prereq rec major or #)
Self-directed study preceded by classroom study and possession of basic competence.

Rec 5100. Foundations of Recreation. (3 cr; prereq MEd or grad student or #; A-F only)
Investigation of the historical, sociological, and educational bases of the recreational use of leisure time in contemporary society.

Rec 5111. Sports Facilities. (3 cr, §Kin 5111; prereq kin or rec major or #; A-F only)
Planning areas and facilities for athletics, physical education, and sport, emphasizing current trends and problems.

Rec 5160. Recreation Land Policy. (3 cr; prereq 1520 or 5100 or #; A-F only)
Environmental considerations in relation to recreation and leisure services.

Rec 5190. Commercial Recreation. (3 cr; prereq 3550 or #; A-F only)
Survey of scope and development of profit-making recreation agencies, facilities, and services.

Rec 5210. Introduction to Therapeutic Recreation. (3 cr; prereq 1520 or #, rec major or #; A-F only)
Overview of the range of approaches, services, and settings in which services are delivered to meet the physical, emotional, cognitive, and social needs of people with disabilities and other special populations.

Rec 5220. Therapeutic Recreation Services. (5 cr; prereq 5210 or #, rec major; A-F only)
In-depth analyses and application of comprehensive program design techniques, best practices/protocols, and outcomes of participant/client/patient and program management.

Rec 5230. Recreation and Persons With Developmental Disabilities. (4 cr; prereq 5210 or #; A-F only)
Issues relating to leisure services for persons with developmental disabilities; approaches to programming in the institution and community.

Rec 5235. Leisure and Mental Health. (4 cr; prereq 5210, Psy 3604 or 5604, or #; A-F only)
Role of leisure in preserving mental health, intervening or reducing the effects of mental illness, program design techniques, assessing benefits.

Rec 5240. Recreation and Aging. (4 cr; prereq 3540 or 5100 or #; A-F only)
Issues surrounding aging, theories supporting program design and delivery, procedures for therapy, leisure education and counseling, and techniques for selecting choices of activities for leisure participation in home, community, outpatient, and clinical settings.

Rec 5250. Financing Leisure Services. (3 cr; prereq 3550 or #; A-F only)
Methods and techniques of financing operations and capital improvements in public park and recreation agencies and nonpublic community leisure services; examination of sources of revenue, budgeting procedures.

Rec 5255. Leisure Education for Special Populations. (3 cr; prereq 5220 or #; A-F only)
Instruction, counseling, and other methods of education for awareness of leisure, self-in-leisure, leisure-related problem solving and decision making, and access to leisure services.

Rec 5270. Community Leisure Services and Persons With Disabilities. (4 cr; prereq 1520, rec major or #; A-F only)
Concepts and techniques of inclusion, normalization and least restrictive environment strategies to facilitate recreation service delivery in community settings for people with disabilities.
Rec 5288. Grant Writing in Human Services. (4 cr; A-F only)
Learn to identify, develop, and procure financial assistance for human services programs, including education, recreation, and social programs. Strategies for preparing competitive proposals for grant support through federal agencies, private foundations, and corporations.

Rec 5299. Assessment and Evaluation in Leisure Services. (4 cr; prereq 1520 or #; A-F only)
In-depth study and application of approaches to assessment and program evaluation in human services and an introduction to research methods.

Rec 5300. Adventure Education. (3 cr; prereq sr, 1520 or 5100 or #; A-F only)
Classroom and fieldwork activities dealing with rationale and methods for experiential education and adventure programs; analysis of and experience in adventure activities (initiative games, climbing walls, outdoor adventure trips) focusing on communication, trust, team building, self-discovery, risk taking, leadership development.

Rec 5310. Programming Outdoor and Environmental Education. (4 cr; A-F only)
Methods and materials for developing and conducting outdoor education, environmental education, and interpretation programs; emphasis on developing practical skills to apply in a variety of settings.

Rec 5350. Wilderness Outdoor Recreation Programming. (4 cr; prereq 3150; A-F only)
Exploration of leisure and educational resources of wilderness and management of wilderness-based outdoor recreation and outdoor education programs.

Rec 5455. Recreational Sports. (3 cr; §Kin 5455; prereq rec or kin major or #; A-F only)
In-depth analysis of processes and benefits of recreational sports programming and participation.

Rec 5460. Foundations of Sport Management. (3 cr; §Kin 5460; prereq rec or kin major or #; A-F only)
Principles of sport management and fitness, including theories and techniques in marketing, administration, and management of sport enterprises. Organizational theory and policy with practical examples of sport management skills and strategies.

Rec 5510. Women in Sport and Leisure. (3 cr; §Kin 5510; A-F only)
Historical, cultural, philosophical, and sociopsychological factors that have shaped the growth and development of women's involvement in sport and leisure, as well as obstacles preventing further involvement.

Rec 5630. Practicum: Therapeutic Recreation. (3-9 cr; prereq rec MEd or grad student; S-N only)
Supervised field-based experience in program operation; administrative and supervisory duties.

Rec 5640. Practicum: Leisure Services. (3-9 cr; prereq rec MEd or grad student; S-N only)
Supervised experiences in program operation; administrative and supervisory duties.

Rec 5695. Practicum: Sport Management. (3-9 cr; prereq rec MEd or grad or sport mgmt major; #; S-N only)
Theory and application of principles in developing and managing sport programs, including supervised experiences in program operation.

Rec 5750. Legal Issues in Leisure Services. (4 cr; prereq 3550 or #; A-F only)
Broad study of basic legal considerations in the delivery of leisure services in public and private sectors.

Rec 5860. Legal Aspects of Sport and Physical Activity. (4 cr, §Kin 5860; prereq 3550 or 5460 or Kin 3143, kin or rec major or #; A-F only)
Survey of legal considerations involved in sport and physical activity programs in schools, colleges, and the private sector.

Rec 5900. Workshop: Contemporary Issues in Leisure Services. (1-12 cr [max 12]; A-F only)
Contemporary issues emphasizing administrative and supervisory functions for recreation and allied professionals; individual offerings focus on special issues and/or professional groups.

Rec 5980. Introduction to Research. (3 cr, §Kin 5980; prereq MEd or grad student or #; A-F only)
Basic techniques: emphasis on social research methodology; survey of present status of recreation and park research.

Rec 5981. Problems. (Cr ar; prereq MEd or grad student or #; A-F only)
Independent study in recreation, park, and leisure services under faculty supervision.

Rec 5983. Readings: Recreation. (1-3 cr; prereq MEd or grad student or #; A-F only)
Independent study under tutorial guidance.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

Rec 8310. Seminar: Recreation and Park Administration
Rec 8320. Seminar: Theoretical Perspectives of Leisure Behavior
Rec 8370. Seminar: Administrative Problems in Therapeutic Recreation
Rec 8380. Seminar: Administrative Problems in Recreation and Parks
Rec 8777. Thesis Credits: Master’s
Rec 8980. Research Problems
Rec 8981. Seminar: Research Problems
VOCATIONAL AND TECHNICAL EDUCATION
See Work, Community, and Family Education (WCFE).

WORK, COMMUNITY, AND FAMILY EDUCATION (WCFE)
See also adult education (AdEd), agricultural education (AgEd), business and industry education (BIE), family education (FE), and human resource development (HRD).

WCFE 3010. Technology and Public Ethics. (3 cr, §VoEd/WCFE 5010; A-F only)
Study of the nature of technology. Examination of values and ethical issues relating to technology. Exploration of ways in which citizens can influence technological decisions in their community.

WCFE 5002. Thinking, Learning, and Teaching in Work, Family, and Community. (3 cr, §FE 5002, §VoEd 5002; A-F only)
Nature of thinking, learning, and teaching in everyday life contexts of work, family, and community. Theory and practice relevant to stimulating and supporting thinking and learning within and for these contexts.

WCFE 5010. Technology and Public Ethics. (3 cr, §3010, §VoEd 5010; A-F only)
Study of the nature of technology. Examination of values and ethical issues relating to technology. Exploration of ways in which citizens can influence technological decisions in their communities.

WCFE 5021. Education Through Extension Methods. (3 cr, §AgEd 5021; prereq grad or #; A-F only)
Methods and techniques of formal and nonformal education used by the Extension Service and other organizations.

WCFE 5023. Methods for Change in Developing Countries. (3 cr, §AgEd 5023; A-F only)
Devising strategies, programs, projects, and methodologies for individual and community economic and social change in developing countries.

WCFE 5024. Extension History and Philosophy. (3 cr, §AgEd 5024; A-F only)
Origin, philosophy, historical development, objectives, organizational structure of the Extension Service.

WCFE 5025. Extension Program Development. (3 cr, §AgEd 5025; A-F only)
Planning, implementing, and evaluating the program development process.

WCFE 5026. Administering Nonformal Education Programs. (3 cr, §AgEd 5026; prereq #: A-F only)
Administration of the Extension Service and other nonformal education agencies or programs at the local, area, and state levels.

WCFE 5027. Practicum: Extension Experiences. (2-9 cr [max 9], §AgEd 5027)
Observing and participating in activities of Extension Service staff at county and state levels; staffing, program planning and development, educational and administrative functions.

WCFE 5100. Special Topics in Instruction. (1-6 cr [max 9], §VoEd 5100)
Planning, providing, and/or evaluating instruction. Topics vary with each offering.

WCFE 5101. Special Topics in Curriculum. (1-6 cr [max 9], §VoEd 5101)
Development and evaluation of curricula and/or curriculum materials. Topics vary with each offering.

WCFE 5102. Special Topics in Administration. (1-6 cr [max 9], §VoEd 5102)
Leadership and management of vocational education programs. Topics vary with each offering.

WCFE 5200. Program Evaluation. (3 cr, §VoEd 5200; A-F only)
Designing and conducting program evaluations.

WCFE 5204. Literacy in Work Settings. (3 cr, §AdEd 5204, §VoEd 5204; A-F only)
Overview of concepts in integrating literacy instruction into vocational training programs and work settings: diagnosis and methods of assessing needs of vocational students and workers on a job, techniques for building needs into training programs.

WCFE 5274. Two-Year Postsecondary Institutions. (3 cr, §EdPA 5274, §VoEd 5274; A-F only)
Present status, development, functions, organization, curriculum, trends in postsecondary but nonbaccalaureate institutions.

WCFE 5282. Counseling Adults in Transition. (3 cr, §VoEd 5282, §EPsy 5434; A-F only)
Theoretical and empirical knowledge as base for analyzing adaptation to transitions; applications of counseling interventions, training in coping skills.

WCFE 5284. Leadership Skills. (1 cr, §VoEd 5284; A-F only)
Applying leadership and management theory to education programs for youth and adults in school, industry, business, and community settings.

WCFE 5285. Vocational Placement. (3 cr, §VoEd 5285; A-F only)
Methods and techniques for designing an effective school-based vocational placement program. Topics focus on principles of school-based placement, the placement process, and planning the placement program.
WCFE 5286. Marketing of Education and Training Programs. (3 cr, §VoEd 5286; A-F only)
Applying a comprehensive marketing model to the design and delivery of education and training programs to institutions, programs, and specific course offerings. Emphasis on market research, market segmentation, product positioning, alternative marketing mix strategies, and marketing planning.

WCFE 5300. Philosophy and Practice of Vocational Education. (3 cr, §VoEd 5300; A-F only)
Purposes, recipients, practices, legislation and funding, socioeconomic contexts.

WCFE 5310. Advising Vocational Student Organizations. (2 cr, §VoEd 5310; A-F only)
The value and purpose of vocational student organizations in the curriculum. Tasks of the adviser in designing, operating, and sustaining activities to enhance student leadership, personal development, and school-to-work transition.

WCFE 5330. Coordination Techniques in Cooperative Education. (3-4 cr, §VoEd 5330, §BME 5352, §HEEd 5106, §Ind 5310, §AgEd 5071; A-F only)
Responsibilities of instructor-coordinator; guidance, selection, placement, supervision, and evaluation of students; articulation of related instruction; training sponsor identification, orientation, development, and evaluation; purposes and management of program.

WCFE 5340. Principles of Supervisory Management. (3 cr, §VoEd 5340; A-F only)
For persons in education, business, industry, or service organizations.

WCFE 5400. Education for Work. (3 cr, §VoEd 5400; prereq 5300 or #; A-F only)
Contextual bases underlying education for work; implications for practice.

WCFE 5410. Experiential Learning: Theory and Practice. (3 cr; A-F only)
Analyzing students’ own learning process; how experience is used in educational settings; shared decision making and group dynamics.

WCFE 5420. Youth in the World. (3 cr, §VoEd 5420, §YoSt 5100; prereq 5410 or #; A-F only)
Understanding youth using “everyday life” experiences as levels of reality; range of ideas, social institutions, and organizations that reflect the ways societies and cultures understand and influence youth.

WCFE 5430. Organizational Approaches to Youth Development. (3 cr, §VoEd 5430, §EdPA 5340; prereq 5410 or #; A-F only)
Understanding organizational systems responsible for youth development in community and debating policy issues surrounding them.

WCFE 5440. Issues: Youth Development. (3 cr, §VoEd 5440; prereq 5410 or #; A-F only)
Healthy development of adolescents in relation to the family, community, and workplace; collaborative use of community resources to address these issues.

WCFE 5450. Critical Pedagogy. (3 cr, §AdEd 5450, §FE 5450, §VoEd 5450; S-N only)
Critical pedagogy in schools and adult education; application to education for family, work, and community.

WCFE 5451. Microcomputer Instructional Utility Software. (2 cr, §VoEd 5451; prereq microcomputer coursework or exper; A-F only)
Software for preparing tests, worksheets, learner reports and records, instructional inventory records, and classroom group presentations for vocational educators.

WCFE 5452. Authoring Instruction Using Microcomputers. (3 cr, §VoEd 5452; prereq 5450 or equiv or #; A-F only)
Designing and preparing instructional materials using an authoring language.

WCFE 5490. Seminar in Youth Development. (1-6 cr, §VoEd 5490; S-N only)
Concepts of healthy youth development as framework for discussing personal experience, portfolio development, and other program facets.

WCFE 5500. Introduction to Vocational Education Administration. (3 cr, §VoEd 5500; A-F only)
Basic concepts of structure, financing, program planning and evaluation, law and liability, personnel policies, and the management of vocational education programs.

WCFE 5600. Planning Vocational Education. (3 cr, §VoEd 5600; A-F only)
Context, definition, methods, and information needs in planning at national, state, and local education agency levels.

WCFE 5601! Teaching Internship: Introduction. (2 cr, §VoEd 5601; prereq WCFE init lic grad program or undergrad lic specialization student; S-N only)
Initial experiences in the teaching profession are provided through observations of school organization and administration, seminars, relationship building with cooperating teachers, and a reflection on personal involvement as a beginning student intern.

WCFE 5602. Teaching Internship: School Setting. (2-3 cr; prereq WCFE init lic grad program or undergrad lic specialization student; A-F only)
Participation is expected in seminars and part-time student teaching experiences in a local school. Emphasis on reflection and dialogue based on teaching internship experiences. Focuses on vocational education’s role in the context of the school.
WCFE 5603. Teaching Internship: Classroom Setting. (2-3 cr; prereq WCFE init lic grad program or undergrad lic specialization student; A-F only)
Participation is expected in seminars and part-time student teaching experiences. Students experience development of reflective teaching practices and student management in classrooms, labs, and field settings.

WCFE 5604. Teaching Internship. (6-12 cr; prereq WCFE init lic grad program or undergrad lic specialization student)
Teaching experience in a school system that provides programs for grades 5-12.

WCFE 5700. Teaching Entrepreneurship: Small Business Management. (3 cr, §VoEd 5700; A-F only)
Organization, curriculum, modification, and implementation of education programs.

WCFE 5800. Educating Persons With Special Learning Needs. (3 cr, §VoEd 5800; A-F only)
Identifying instructional procedures for students with disabilities and disadvantaging conditions in regular classroom/lab settings.

WCFE 5801. Educating Persons With Learning Disabilities. (1 cr, §VoEd 5801; A-F only)
Overview of the educational traits of students with learning disabilities, as well as instructional strategies for meeting their educational needs.

WCFE 5802. Educating Disadvantaged Vocational Students. (1 cr, §VoEd 5802; A-F only)
Overview of the educational traits of disadvantaged vocational students, as well as instructional strategies for meeting their educational needs.

WCFE 5804. Work Evaluation of Persons With Special Learning Needs. (3 cr, §VoEd 5804; A-F only)
Overview of techniques, systems, and organizations that evaluate such students entering vocational education programs.

WCFE 5805. Occupational Analysis for Persons With Special Learning Needs. (3 cr, §VoEd 5805; A-F only)
Overview of techniques, issues, and practices used to analyze and describe jobs and job settings into which vocational special needs learners may be placed or for which vocational training or vocational assessment systems may be developed.

WCFE 5806. Interagency Collaboration for At-Risk Populations. (3 cr, §VoEd 5806, §EdPa 5104, §EPsy 5714; A-F only)
Overview of interagency planning issues and practices for educational and human service organizations. Transition of students from school to work and community living, infant and preschool services, and use of locally based planning teams to achieve enhanced service coordination.

WCFE 5808. Diversity Issues and Practices. (3 cr, §HRD 5808, §VoEd 5808; A-F only)
Collaborative diversity-related issues among educators and human resource development personnel. Nature of diverse populations, their unique learning/training needs, effective diversity-related practices.

WCFE 5900. Using Work, Community, and Family Education Research. (3 cr, §VoEd 5900; prereq admission to grad-level program or #; A-F only)
Role of education research in professional practice, significant problems of practice for research, alternative research modes, synthesizing and applying research results.

WCFE 5920. Independent Study. (1-6 cr, §VoEd 5920; prereq ∆)
Self-directed study in areas of special interest.

FOR GRADUATE STUDENTS ONLY
(For description, see Graduate School Bulletin)

WCFE 8100. Colloquium
WCFE 8140. History and Philosophy of Education for Work, Community, and Family
WCFE 8150. Comparative Systems in Education for Work, Community, and Family
WCFE 8160. Critical Issues in Education for Work, Community, and Family
WCFE 8666. Doctoral Pre-Thesis Credits
WCFE 8810. Internship
WCFE 8888. Thesis Credits: Doctoral
WCFE 8910. Positivistic Research
WCFE 8920. Interpretive and Critical Science Research
WCFE 8990. Research Seminar