EDUCATION

College of Education

101A. Exploring Elementary Teaching
Fall, Winter, Spring. 3 credits. ED 101A, ED 101B. 3 credits. ED 101C.
Prerequisite major.
Emphasis on the nature of teaching in the elementary school achieved through field experience while serving as a teacher aide in an elementary classroom. Concurrent lecture sessions focus on techniques of classroom management and operation.

124. Introduction to Careers in Vocational and Practical Arts Education
Opportunities in teaching agriculture, business, home economics or industrial education and in closely related fields; analysis of student's potentialities for these fields.
A. Agriculture
Fall, 2 credits.
B. Industrial Arts
Winter and Fall of even-numbered years, Spring of odd-numbered years.

141A. General Industrial Arts
Winter and Fall of odd-numbered years, Spring of even-numbered years. 3 credits.
Approval of department.
Introductory experiences in all major areas of industrial arts. Organized under a comprehensive general shop organization similar to that utilized in the modern secondary school.

141B. General Woodwork
Winter and Fall of odd-numbered years, Spring of even-numbered years. 3 credits.
Approval of department.
Handwork, patternwork, carpentry, introductory machine work, finishing. Designed to exemplify, in both organization and equipment, desirable practices in today's secondary schools.

200. Individual and the School
Fall, Winter, Spring, Summer. 3 credits.
Sophomores. Must be admitted to a teacher education program.
Major psychological factors in the school learning-teaching situation; concepts in human development related to problems in the school situation; teacher's role in motivation, conceptual learning, problem solving, and the development of emotional behavior, attitudes and values, learning of skills, retention and transfer; and measurement of student abilities and achievement.

214A. Advanced Woodwork
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3 credits.
Approval of department.
Cabinet work, sheet metal forming, welding, plating, casting, and machining. Designed to exemplify desirable facilities and course organization for the modern secondary school.

214C. Industrial Arts Crafts
Winter and Fall of even-numbered years, Spring of odd-numbered years.
Approval of department.
Typical crafts in outstanding public school programs of industrial arts. Work in plastics, leather, silver, aluminum, copper, metal enameling, lapidary, ceramics, and model making.

214D. Printing and Graphics
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3 credits.
Approval of department.
Hand composition, press work, printing, bookbinding, block printing, plate making, silk screen work, and photography. Designed to exemplify a desirable approach to the work of this area in the modern secondary school.

312A. Curriculum Methods and Materials--Elementary Education
Fall, Winter, Spring, Summer. 3 credits.
Juniors, ED 101A, ED 200. Must be taken concurrently with or prior to courses in ED 325 series.
Basics, scope and sequence of curriculum in reading, language arts, and social studies; adaptation of principles to methods and materials of teaching in the elementary and middle school.

325A. Methods of Teaching Reading in the Elementary School
Fall, Winter, Spring, Summer. 3 credits.
Juniors.
Methods and materials of instruction of reading at elementary level. Analysis of learning and teaching problems, and study of concrete materials and classroom attack. Consideration of practical bearings of research and progressive theory on current practice.

325B. Teaching of Language Arts in Elementary Grades
Fall, Winter, Spring, Summer. 3 credits.
Juniors.
Course to acquaint prospective elementary teachers with content material and methods in language arts for grades below the seventh. Students also given opportunity to acquire skills in manuscript and blackboard writing.

325C. Critical Reading and Children's Literature
Fall, Winter, Spring, Summer. 3 credits.
Juniors.
Development of strategies for helping children to develop critical reading skills through literary experience.

325D. Teaching of Social Studies in Elementary Grades
Fall, Winter, Spring, Summer. 3 credits.
Juniors; three terms of social science.
To help students develop understanding of philosophy and aims of social studies movement in elementary schools, and ability to further such aims through familiarity with a variety of materials, knowledge of social studies subject matter, and competence in using a variety of methods.

325E. Teaching of Mathematics in Elementary Grades
Fall, Winter, Spring, Summer. 3 credits.
Juniors, MTH 201.
Prepares methods and materials for teaching mathematics in the elementary school. Methods and techniques of presenting mathematics content meaningfully to elementary pupils will be illustrated.

325F. Teaching Science in the Elementary and Middle School
Fall, Winter, Spring, Summer. 3 credits.
Juniors; three terms of Natural Science.
Extends the science education background of prospective elementary and middle school teachers. Emphasis is placed upon methods and materials for teaching science at the elementary and middle school levels.

325G. School Music Instrumental Methods
Fall, 3 credits.
Instrumental music major.
Instrumental instruction program at elementary level.

325H. School Music Vocal Methods
Fall, 3 credits.
Approval of the Department of Music.
Basic instructional program in primary and intermediate grades.

327. Methods of Teaching--Secondary Common Elements
Fall, Winter, Spring, Summer. 3 credits.
ED 200: a subject area methods course, or concurrently.
Instructional issues common to all subject areas. Selection of instructional techniques based on teacher values and beliefs, learner needs and characteristics, and sound educational principles and policies.

377-A. Methods of Teaching--Secondary Subject Areas
Specifies classroom instruction in the various subject matter fields. Selection of instructional techniques based on recognized course objectives, needs and characteristics of learners, and sound educational principles and policies.

A. Agriculture
Fall, Spring. 3 credits.

B. Art
Fall, Winter, Spring. 3 credits.

C. Business and Distributive Education
Fall, Winter, Spring. 3 credits.
341C. General Electricity
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) Approval of department.
Low voltage wiring, household devices and appliances, motor and general maintenance, house wiring, elementary radio, and elementary television. Designed to exemplify a desirable approach to this area in the industrial education program of the modern secondary school.

401. Sociology of Education
Winter, Summer, 4(4-0) SOC 241. Interdepartmental with and administered by the Department of Sociology.
School as a social institution, school-community relations, social control of education, and structure of school society.

402A. Advanced Workshops in Secondary Education
Fall, 2(2-4) May not receive credit for ED 402A and ED 327; ED 402C.
Workshops on a variety of educational issues and problems, such as finance, curriculum construction, advanced evaluation and assessment techniques, advanced teaching methodology, etc. Approved through Fall term 1978.

402B. Seminar in Teaching Secondary Disciplines
Winter, 3(3-0) May not receive credit for ED 402B and ED 327. ED 402A.
Focus on instructional and curriculum problems in specific disciplines of student's major field of study. SEPP staff will work in liaison with various University personnel in helping students explore materials, strategies, and patterns of curriculum organization in major fields. Approved through Winter 1980.

402C. Senior Secondary Education Proseminar
Spring, 1(2-0) May not receive credit for ED 402C and ED 450. ED 402B.
Focus is on student's personal refinement of educational philosophy. Readings on current historical and philosophical perspectives will form core of program, and serve as an introduction to graduate study in education. Approved through Spring term 1980.

329F. Introduction to Driver and Traffic Education
Fall, Spring, 4(3-2) Valid driver's license.
Introduction to and an analysis of the driving task. Theory and practical application will be provided.

341A. Advanced Metalwork
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) ED 241B or approval of department.
Work in bench metal, sheet metal, forging, welding, plating, casting, machining of metals. Designed to provide the industrial arts teachers with sufficient breadth and skill to enable him to establish such a program in a secondary school.

341B. Industrial Arts Mechanics
Winter and Fall of odd-numbered years, Spring of even-numbered years. 3(0-6) Approval of department.
Work with small motors and internal combustion engines, drive and transmission devices. Designed to exemplify desirable practice in course organization and facilities for the modern secondary school.

411. School Learning I
Fall, Winter, Spring, Summer. 3(3-0) ED 200.
Verbal learning, concept formation, problem solving and transfer with implications for teaching in schools.
423F. Communication Modifications for Visually Handicapped Children
Spring, 3(2-2) ED 423C.
A laboratory course including Nemeth Code of Mathematics, science, music and language notations; preparation of classroom materials; establishing test reference materials. Emphasis upon instruction at the secondary level.

423G. Education of the Blind-Deaf
Fall, Winter, Spring, 3(2-2) May re- enroll for a maximum of 9 credits. ASC 222, ASC 277, ASC 454, or concurrently.
Methods of teaching blind-deaf children including guiding principles; curriculum structure; readiness activities; sensory development; discipline; evaluation; methods of communication; speech and speech reading, and language, including language methods and principles.

424A. Education of Exceptional Children
Fall, Winter, Spring, Summer, 3(3-0) Emphasis on the nature of handicapping conditions and educational needs and approaches. Includes mental retardation; emotional disturbance; visual, auditory and physical handicaps.

424B. Psycho-Educational Evaluation of the Handicapped
Fall, Winter, Spring, 3(3-0) ED 424A.
Screening and placement procedures. Terminology and interpretation of tests used for assessment of intelligence, aptitude, achievement, personality and interests of the handicapped.

424C. Organization of Services for the Handicapped
Fall, Winter, Spring, 3(3-0) ED 424A.
Identification and study of organizations important to the operation of special education program including educational, state and voluntary agencies.

425A. Educational Provisions for Deaf Children and Youth
Winter, Spring, 3(3-0) ED 424A, ED 436, ASC 454.
Adaptation of educational methods, materials and curriculum to the needs of individuals with severe and profound hearing impairment.

425B. Language Development for the Deaf
Fall, Winter, Spring, Summer, 3(3-0) ED 424A or ED 434A.
Theories of language development, considerations of systems in both oral and total communication philosophies, practice in manual communication.

425C. Speech Development for the Deaf
Winter, Spring, 3(3-0) ED 425B or concurrently.
Techniques for aiding development of intelligible speech in individuals with severe and profound hearing loss.

425D. Manual Communication of the Deaf
Fall, Winter, Spring, Summer of odd-numbered years, 3(2-2) May re-enroll for a maximum of 6 credits. Approval of department. Development of basic skills in finger spelling and the language of signs, with emphasis on signed English, practice in simultaneous use with spoken English.

427A. Educational Provisions for the Physically Handicapped (403C) Fall, 3(3-0) ED 424A, ED 436.
Facilities, programs, trends, methods, materials and terminology in education of the physically handicapped. Field trips to special classes and hospital school programs.

427B. Educational Provisions for Learning Disabilities
Fall, Winter, Spring, 3(3-0) ED 424A.
Characteristics and terminology of basic learning theories and learning disabilities. Educational practices and programs and major contributors. Field practicum with learning disability children.

428A. Psycho-Educational Characteristics of the Mentally Retarded
Fall, Summer, 3(3-0) ED 424A or approval of department.
Cognitive, affective and social characteristics of the mentally retarded. Implications for school learning and life adjustment. Differentiation of mental retardation from related conditions.

428B. Curriculum for the Mentally Retarded
Fall, Summer, 3(3-0) ED 424A or approval of department.
The development of curriculum for mentally retarded children and youth emphasizing current practice in pre-school through secondary school programs for educable and trainable mentally retarded.

428C. Educational Procedures for the Mentally Retarded
Fall, Summer, 3(3-0) ED 424A or approval of department.
Methods of instruction for mentally retarded children and youth, including the development of objectives, assessment of individual abilities, the development of learning skills, and the teaching of non-academic and academic skills.

429. Disabling Conditions: Special Education and Rehabilitation
Fall, 3(3-0) ED 424A.
Etiology, medical, educational-vocational implications of disability for special education and rehabilitation. Emphasis on medical lectures by physicians.

429G. Laboratory Programs in Driver and Traffic Education
Fall, Spring, Summer. 5(3-4) ED 329F, valid driver's license.
Examination of the aims, objectives and role of laboratory programs in driver and traffic education. Directed laboratory experiences with new drivers will be provided.

429H. Organization and Administration of Driver and Traffic Education
Fall, Summer of even-numbered years, 3(3-0) ED 329F.
Organizational and administrative aspects of driver and traffic education as they relate to the total school and other specialized programs. Historical and philosophical aspects, evaluation, related professional organizations, and occupational opportunities.

429J. Personality Factors in Driver and Traffic Education
Winter, Summer of odd-numbered years. 3(3-0) ED 329F, PST 225.
Study of behavior with emphasis on attitudes, motivation, and adjustment and their relationship to unsafe driving. Investigation of principles, and methods appropriate in identifying, understanding, and modifying unsatisfactory behavior.

429K. Fundamentals of Traffic Law
Spring, Summer of odd-numbered years. 3(3-0) Interdepartmental with the School of Criminal Justice.
Nature, function and application of traffic law as it applies to the safe and efficient movement of people and goods in a broadly conceived traffic accident prevention program.

429L. Methods and Materials in Driver and Traffic Education
Winter, 3(3-0) ED 329F.
Classroom instruction in driver education. Selection and presentation of appropriate classroom materials. Evaluation of classroom teaching techniques.

429M. Curriculum Development in Driver and Traffic Education
Spring, 3(3-0) ED 429C, ED 429L.
Philosophical basis of curriculum construction. Trends in driver education curriculum development. Development of model curricula for two, three and four phase driver education programs using accepted principles of curriculum construction.

431A. Educational Media in Instruction
Fall, Winter, Spring, 3(3-0) ED 431A.
Educational media for preschool teachers. Selection and utilization of flat pictures, slides, films, strips, motion picture films, sound, models, radio, television and field trips. Equipment operation acquired through self-instruction laboratory.

431B. Basic Educational Graphics
Fall, Winter, Spring, Summer, 3(3-0) ED 431B or approval of department.
A course for teachers and prospective teachers in the local production of visual instructional materials.

432A. Psycho-Educational Characteristics of the Emotionally Disturbed
Fall, Winter, Spring, 3(3-0) ED 432A.
Psycho-educational characteristics of the emotionally disturbed are surveyed and evaluated. Additionally, various strategies which purport to educate the disturbed child are studied and evaluated.

432B. Remedial Practices with the Emotionally Disturbed
Fall, Winter, 3(3-0) ED 432A.
Emphasis is on the specific learning disabilities of the emotionally disturbed, both in the area of assessment and remediation. Specific methods and materials are surveyed and described in terms of their use.
432C. Classroom Management: Emotionally Disturbed
Fall, Winter, Spring. 3(3-0) ED 42A, ED 432A, ED 432B, and student teaching with emotionally disturbed.
For student teachers in the area of the emotionally disturbed only. The primary emphasis is on psycho-educational curriculum, and management of the emotionally disturbed in school settings.

433. Alcohol and Drugs: A Social Dilemma
Winter. 3(3-0) Seniors or approval of college. Interdisciplinary with and administered by the School of Criminal Justice. An overview investigation of the substance abuse phenomena with emphasis on alcohol. Sociological, psychological and medical aspects are discussed with implication for prevention, treatment and rehabilitation.

436A. Student Teaching
(Fall) Fall, Winter, Spring. 15(5-25)
May reenroll for a maximum of 30 credits. 2.00 cumulative grade-point average; ED 327 for Secondary Education majors; ASC 477 for Audiology and Speech Sciences majors; approval of college. Applications must be made to the Student Teaching Office as follows: Fall during the previous October; Winter during the previous February; Spring during the previous May. Participation in activities of school and community. Teaching and related activities, observation, and seminar on the problems of teaching. Usually requires students to live in typical Michigan cities for an entire term.

436B. Student Teaching
(Fall) Fall, Winter, Spring. 5(3-6) 2.00 cumulative grade-point average; ED 327 for Secondary Education majors; ASC 477 for Audiology and Speech Sciences majors; approval of college. Application must be made to the Student Teaching Office as follows: Fall during the previous October; Winter during the previous February; Spring during the previous May. Participation in activities of school and community. Teaching and related activities, observation, and seminar on the problems of teaching. Usually requires students to live in typical Michigan cities for an entire term. A competency based course.

436C. Student Teaching
Fall, Winter, Spring. 10(3-20) ED 438B
Application must be made to the Student Teaching Office as follows: Fall during the previous October; Winter during the previous February; Spring during the previous May. Participation in activities of school and community. Teaching and related activities, observation, and seminar on the problems of teaching. Usually requires students to live in typical Michigan cities for an entire term. A competency based course.

436S. Student Teaching-Special Education 2nd Term
Fall, Winter, Spring. 15(5-25) ED 436A
School and community participation. Planning, conducting and evaluating instruction in special education: management techniques, observations, and seminars, related to other special education professionals. An off-campus course in selected Michigan locations.

441B. Advanced Industrial Arts
Mechanics
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) ED 341B, approval of department. Typical applications of power and its control, internal combustion engines, external combustion engines, motors, drive, and transmission devices, hydraulic and pneumatic equipment, experimentation with organizational patterns and teaching devices when taken for graduate credit.

441C. Advanced General Electricity
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) ED 341C or approval of department. Development and construction of simple electric motors, radios, and electronic devices. Experimentation with the development of organizational patterns appropriate to secondary schools when taken for graduate credit.

441D. Advanced Printing and Graphics
Winter and Fall of even-numbered years, Spring of odd-numbered years. 3(0-6) ED 241D or approval of department. printing plate making, photography. Attention to development of adult programs in the area of graphics. Development of resource materials when taken for graduate credit.

441E. Advanced Industrial Arts Crafts
Winter and Fall of odd-numbered years, Spring of even-numbered years. 3(0-6) ED 341E or approval of department. Designed to provide the industrial arts teacher with sufficient breadth and skill to enable him to establish such a program in a secondary school.

442. Principles and Practices in Home Economics
Winter, Spring, Summer. 3(3-0) ED 436
Analysis of the student teaching experience. Professional expectations, role of the teacher, and scope of home economics programs.

446. Teaching Internship
Fall, Winter, Spring. 5 to 15 credits. May reenroll for a maximum of 22 credits. ED 321A
Internship teaching experience: under the guidance and supervision of intern consultants and other MSU faculty. Includes a variety of activities, including full-time teaching experience in a selected school.

450. School and Society
Fall, Winter, Spring. 3(3-2) ED 200
Study of the structure, function and purposes of educational institutions. Course provides options for students in meeting professional needs recognized in directed teaching and desired before entering full professional practice.

464. Standardized Tests and Testing Programs
Fall, Winter, Spring. 3(3-0) ED 200
History and status of educational measurement. The available standardized tests and sources of information about them. Interpretation of standard test scores. Norms and profiles. Local and widescale testing programs.

465. Testing and Grading
Fall, Winter, Spring. 3(3-0) ED 200
Construction, use, and evaluation of teacher-made classroom tests, objective and essay, in elementary schools, secondary schools, and colleges. Statistical analysis of test scores and item response. Grading problems.

470. Science Instruction in Selected Areas for Elementary and Middle School Teachers
Winter, Spring. 3(3-0) May reenroll for a maximum of 6 credits. ED 325F
Expands instruction techniques and knowledge of teaching materials in various science-related curricula for elementary and middle school children. Limited to examination of selected topics during any one term.

471B. Classroom Management in Business and Distributive Education
Fall, Spring. 4(3-2) ED 200, ED 327C concurrently or approval of department. Principles and practices of using materials and media, using community resources; providing directed occupational experiences; how to individualize instruction, evaluating student achievement.

472. Organization and Administration of Cooperative Office and Distributive Occupations
Fall, Spring. 3(3-0) ED 471B or concurrently; or approval of department. Development of knowledge and understanding of (1) purpose of preparatory in-school curriculum and its relationship to cooperative programs of office and distributive occupations; (2) organization and administration of a cooperative program; (3) coordination techniques; and, (4) correlation of on-the-job and in-school learnings through related instruction class.

473. Individualized Study in Industrial Education
Fall, Winter. 3 credits. May reenroll for a maximum of 9 credits. Approval of department. Development of professional and technical competencies in industrial education using laboratory, library, school, government, and industrial settings.

475. Practicum in Developmental and Corrective Reading
Fall, Winter, Spring. 3(1-2) ED 325A
Application in a field setting of instructional principles introduced in ED 325A. Also a broad theoretical base for teaching reading.

IDC. Canadian-American Studies
For course description, see Interdisciplinary Courses.

477. Use of Paraprofessionals in Counseling
Fall, Spring. 3(3-0)
History and current status of the paraprofessional movement. Review of the selection, training, and evaluation processes; identification of issues and problems in the use of support personnel.

482. Seminars in Education
Fall, Winter, Spring. 1 to 8 credits. Approval of department. Seminars in the various fields of emphasis in education.

483. Readings and Independent Study in Education
Fall, Winter, Spring. 1 to 8 credits. May reenroll for a maximum of 8 credits. Juniors, approval of department.
Study on an individual basis in the various fields of emphasis in education.

A-55
484. **Field Experience in Education**  
Fall, Winter, Spring, Summer. Variable credit. May be repeated for a maximum of 12 credits. Approval of department.  
Supervised undergraduate practicum in education.

485. **Elementary Pre-Intern Seminar**  
Fall, Winter, Spring. 4(4) Approval of department. Completion of Phase I of Internship Teaching.  
Selected professional and clinical educational problems are studied in a field setting as an integral part of the pre-intern twenty-week block of courses.

486. **Foreign Field Experience in Elementary Education**  
Fall, Winter, Spring. 4(4-0) Approval of department. ED 321A.  
Supervised undergraduate practicum in a foreign country. Selection based on interview and current student teaching in foreign country.

489. **Core Seminar in Special Education**  
Fall, Winter, Spring. 3(2-6) ED 101A, ED 424A, admission to special education, core students only.  
Consideration of affective interactions with children, parents, and other professionals. Attention is given to Montessori, open classrooms, and the role of the parent in the classroom.  
Supervised practicum in an educational program for emotionally impaired learners, taken concurrently with ED 424B and ED 424C.

490. **Teaching Low Vision Skills**  
Fall, Winter, Spring. 3(0-3)  
Assisting learners with limited residual vision make maximal use of prescribed low vision aids and interpreting the use of aids to teachers of nonhandicapped children.

490F. **Teaching Low Vision Skills**  
Fall, Winter, Spring. 1(0-3) juniors and majors in education of visually handicapped or blind/defect children.

490G. **Teaching Daily Living Skills to Visually Handicapped Learners**  
Fall, Winter, Spring. 1(0-3) juniors and majors in education of visually handicapped or blind/defect children.

490H. **Teaching Daily Living Skills to Visually Handicapped Learners**  
Fall, Winter, Spring. 1(0-3) majors and seniors in education of visually handicapped or blind/defect children.

490J. **Field Experience: Special Education Core**  
Fall, Winter, Spring. 4(0-16) ED 101A, ED 424A, admission to special education, core students only.  
Supervised practicum in an educational program for handicapped learners, taken concurrently with ED 424B and ED 424C.

495. **Reading in the Content Areas of the Secondary Level**  
Fall, Winter, Spring. 3(2-6)  
Strategies for advising assessment and instruction compatible with content area teaching objectives. Practical applications in classroom settings for learners in grades 4-12 as well as adults.

500. **Crucial Issues in Education**  
Fall, Winter, Spring. 3(3-0) Approval of department.  
Problem analysis of timely issues in education analyzing their ethical, historical, sociological, and philosophical dimensions. Attention centered on problems of continuing concern. Particular attention devoted to the role of the teaching profession in issues involving public policy.

501. **Seminars in Social and Philosophical Foundations of Education**  
Fall, Winter, Spring. 3(3-0) Approval of department.  
A. **Philosophy of Education**  
B. **Education in the Western World**  
C. **Comparative Educational Philosophies**  
D. **Social Criticism and Education**  
E. **Comparative Educational Thought and Practice in the Modern World**  
F. **Modern Philosophies of Education**

502A. **Education in the U.S.A.**  
Fall, 3(2-4) Passed English Language Center examination or approval of department.  
Designed to provide first term foreign students in graduate programs with theoretical and experiential background in American education.

502B. **Education in the U.S.A.**  
Winter. 3(2-4) ED 502A or approval of department.  
Designed to provide foreign students in graduate programs with theoretical and experiential background in American education.

503. **Curriculum Innovation in Elementary and Middle School Science**  
Summer of odd-numbered years. 3(3-0)  
Experience in teaching, ED 325F or approval of department.  
In-depth examination of the objectives, learning theory, instructional strategies, classroom activities, and science content of a single elementary science program selected from among such curriculum revision projects.

504. **Historical and Comparative Foundations of Education**  
A. **History of American Education**  
B. **Higher Education in the United States**  
C. **Educational History: Plato to Locke**  
D. **Development of Educational Thought and Practice in the Modern World**  
E. **Education in the Western World**  
F. **Education in the Non-Western World**

A-56
805. Seminar in Urban Teaching
Fall, Spring, Summer. 3(3-0) Approval of department.
Exploration of literature related to problems, programs, and techniques of effective teaching in urban schools. Importance of student and teacher characteristics and program organization and goals will be assessed as they relate to quality education.

806. Problems of the Professional in Higher Education
Administration: Men and Women
Spring. 3(3-0) Approval of department.
Presents academic, administrative, legal, sociological and psychological factors which affect members of both sexes in the fields of teaching and administration.

807. Contemporary Issues in American Higher Education
Administration
Winter. 3(3-0) Approval of department.
External and internal demands and stresses facing American higher education. How administrators should respond to critical issues and problems.

808. Methods and Materials in Children's Literature
Undergraduate course in children’s literature, graduate students.
Critical evaluation and utilization of literature for children.

809. Advanced Methods of Teaching Language Arts
Graduate students.
Survey of principles and instructional methods for teaching listening, speaking and writing attitudes and skills at the elementary and middle school levels; examination of current references and resources through self-selected area of special study.

810. Teaching Elementary School Social Studies
Fall, Winter, Spring. 3(3-0) Experience in teaching and approval of department.
Methods and materials used in teaching social studies in kindergarten through the eighth grade.

811. School Learning II
Fall, Winter, Spring. 3(3-0)
ED 410 or ED 411.
Survey of research with special attention to applications to teaching and development of school programs.

812. Growth and Behavior
Fall, Winter, Spring. 3(3-0)
ED 412 or approval of instructor.
Survey of research with special attention to applications to teaching and school programs.

813. Social and Emotional Behavior in the Classroom
Fall, Winter, Spring. 3(3-0)
Six credits in Psychology or Educational Psychology.
Survey of experimental and clinical research related to life factors which affect social-emotional development; implications for teaching.

814. Classroom Discipline
Summer. 3(3-0) Experience in teaching or pupil personnel work.
The study and practice of positive strategies for the resolution of classroom discipline problems.

815A. Principles of Guidance and Personnel Services
Fall, Winter, Spring, Summer. 3(3-0) Approval of department.
Survey of guidance services and their application in educational settings—elementary and secondary. Introduction to the field of pupil personnel work in schools. Practical guidance problems are considered.

815B. Student Personnel Work in Higher Education
Overview of student personnel services in colleges and universities. Philosophy, organization, and administration of the personnel program at this level and of specific services provided. Opportunity to visit and study college personnel programs.

815D. Introduction to Rehabilitation Counseling
Fall. 3(3-0) Open to rehabilitation counseling majors only.
Overview of field of rehabilitation. Orientation to the Michigan Division of Vocational Rehabilitation. Rehabilitation counseling: pre-practicum experience with Michigan Division of Vocational Rehabilitation.

816. Procedures in Guidance
A. Career Development Services
Fall, Winter, Summer. 3(3-0) ED 815B; or concurrently.
Analysis of group and individual methods providing information related to career planning, educational opportunities, and personal-social concerns. Utilization of information from placement agencies, follow-up studies, and community surveys in curriculum revision is stressed.

B. Counseling and Guidance in the Classroom
Fall, Winter, Spring, Summer. 3(3-0) ED 815B; or concurrently.
Examination of factors underlying counseling activities and social characteristics of students. Basic principles, methods and techniques related to diagnosing, interviewing, counseling and referring counselors for special assistance are included.

C. Practice in Group Counseling Techniques
Winter. 3(3-0) ED 816B.
Emphasis upon development of counseling skills through analyzing and leading small groups. Students participate in a group to examine in depth their own self-image and motives. Didactic content is related to experiences in the group.

D. Practice in Individual Interviewing Techniques
Spring. 3(3-0) ED 816A and ED 816B.
Role-playing, video tapes, audio tapes and demonstrations are utilized in helping each student develop skills in counseling with children and consulting with parents. Techniques appropriate for various age levels and problems will be practiced.

817A. Introduction to Urban Counseling
Fall. 3(3-0) ED 817A and ED 817B concurrently.
Problems—health, socio-cultural, economic, educational, legal, vocational—as manifested by urban residents and their resolution through counseling. Emphasis on systems and personal change mechanisms.

817B. Systemic Counseling
Fall. 3(3-0) Approval of department.
An evaluation of the theory and philosophy of systemic counseling. Issues pertaining to systemic change will be examined.

817C. Urban Counseling Practicum
Fall, Winter, Spring. 3 credits. May enroll for a maximum of 12 credits. ED 817A or approval of instructor.
A minimum of 12 hours per week of supervised counseling will be performed in an urban agency setting. Emphasis on developing counseling skills applicable to urban residents and urban agencies.

817D. Urban Career Development System Analysis
Winter. 3(3-0) ED 817A and approval of department.
Critique of existing theories of vocational (career) development and interest inventories for use with urban residents, examination of factors to urban residents, and development of alternative models.
819H. Development Counseling
Spring, 3(3-0) ED 817A, ED 867, and ED 868, or approval of department.
Application of evaluative research methods to the solution of urban problems, review of current evaluative techniques, identification of problems, design, experiments, review of selected studies.

819A. Behavior Disorders in Children
Spring, 3(3-0) 12 graduate credits in educational psychology or related area.
Characteristics, causes and treatment of school related behavior disorders in children considered within a developmental framework.

819B. Roles and Functions of School Psychologists
Spring, 3(3-0) Admission to Ed.S. program or approval of instructor.
History and current status of the field. Current concerns in assessment, reporting of findings, consultation and legal-ethical responsibilities.

819C. Counseling Practice
Fall. 3(3-0) Admission to M.A. Counseling Program.
The practice of counseling and guidance in schools, community colleges, and rehabilitation agencies.

819D. The Counseling Process
Fall, Winter. 3(3-0) Admission to M.A. Counseling Program.
Selected theories of counseling with special attention to the application of theories of learning in the counseling process.

819E. Counseling and Consulting Strategies
Fall, Spring, Summer. 3(3-0) ED 819A and ED 819B.
Selected remedial and preventative counseling strategies will be studied. Methods and techniques for assisting with individual and environmental change will be examined. Procedures for consulting with parents, teachers, and agency personnel will be studied.

819F. Counseling Practicum I
Spring. 6(4-8) ED 819C and ED 819D.
Supervised counseling experience in selected schools and agencies followed by analysis of the cases and critique of these experiences through group and individual consultation with instructor.

819G. Counseling Practicum II
Fall. 6(4-8) ED 819F.
Continuation of ED 819F.

819H. Development Counseling Services
Fall. 3(3-0) ED 819F.
A systems approach to the management of pupil personnel services. Students will use the approach in solving simulated problems.

819J. Group Procedures in Counseling
Summer. 3(3-0) ED 819F.
An examination of group procedures in group counseling with special attention to goal-directed groups. Tapes of group counseling will be analyzed and practice in leading groups under simulated conditions will be provided.

819K. Research in Counseling
Summer. 3(3-0) ED 869.
Emphasis on research methods useful to counselors; measuring counseling outcomes, developing local test norms and expectancy tables, evaluating guidance services, studying behavior change in the single case.

820. Principles of Curriculum Improvement
Fall, Winter, Spring, Summer. 3(3-0)
Experience in teaching; approval of department. Principles of curriculum improvement will be developed through the critical analysis of practices found in public schools.

821A. Curriculum Construction
Fall, Winter, Spring. 3(3-0) ED 820.
Approaches to curriculum construction; organization and function of personnel; initiating and evaluating curriculum change; curriculum research.

821B. Work Experience in the Curriculum
Fall. 3(3-0)
Work environment in schools, colleges, agencies and business and industry; educational objectives and outcomes; administrative aspects of work experience programs, research in the field.

821C. Seminar in Middle School Curriculum
Fall, Spring, Summer. 3(3-0)
Contrasting patterns of programs for early adolescents; age range and characteristics of middle school pupils; problems and potential of the middle school.

822A. Community College
Fall, Winter, Spring. Summer. 3(3-0)
Purposes, functions, and offerings of the community college.

822B. Adult Education: A General Survey
Fall, Spring, Summer. 3(2-2) Approval of department.
Overview of extent, origins, forms, purposes, content, sponsors, methods and guiding theories of continuing education and its significance for individuals, institutions, communities and nations.

822C. Occupational Analysis and Course Construction in Vocational Education
Winter, Summer. 3(3-0) Approval of department.
Techniques of analyzing an occupation to determine the processes, instructional units and curricular arrangements.

822D. Curriculum Construction in Industrial Education
Winter, Summer. 3(3-0) Approval of department.
Selection of general and specialized areas of study in junior and senior high school and adult industrial education courses. Industrial problems, their relation to a particular community and its needs in relation to instruction.

822E. Organization and Management of School Shops
Spring, Summer. 3(3-0) Approval of department.
Planning and organization of school shops in terms of adequacy, adaptability, efficiency, economy, and safety.

822F. Principles of Vocational and Practical Arts
Fall, Summer. 3(3-0)
Principles of occupational and technical education, comprehensive school program characteristics, program planning. Special emphasis is given to programs in agriculture, distributive, health, home economics, industrial education. For vocational and practical arts teachers and local coordinators and directors of programs.

822G. Coordination in Occupational Training Programs
Fall, Winter. 3(3-0) Approval of department.
Analysis of objectives and scope of distributive, office, trade and industrial cooperative education programs, apprenticeship, and general education work experience. Emphasizes organization and administration, instructional procedures, coordination techniques, club activities, and evaluation of cooperative occupational education.

822H. Development of Curricula in Two-Year Colleges
Fall, Winter, Spring. Summer. 3(3-0)
Examination of issues and problems in occupational education. Special emphasis on the emerging role of various governmental and private agencies in manpower development. Designed for majors in fields other than vocational education.

823. Instructional Simulation
Winter. 3(3-0) Teaching experience.
Design and use of simulations and instructional games in the curriculum for development of social skills, values and affects.

824. Seminar in Instructional Development
Winter, Summer. 3(3-0)
Skills and competencies in applying instructional systems principles to learning and teaching problems.

825. Seminar in Instructional Television
Spring, Summer. 3(3-0) Approval of department. Interdepartmental with the Department of Telecommunication.
Television use in instruction, particularly as it concerns the learner, the classroom teacher, the instructional developer and the administration.

826. Social Studies Curriculum K-12
Winter. 3(3-0) Teaching experience.
Social studies curriculum planning, development and improvement. Emphasis on holistic K-12 view but each student will be encouraged to concentrate on a selected area or topic.
827. Improving Secondary Social Studies Instruction
Fall, Spring, Summer. 3(3-0) Teaching experience.
Recent literature, curricular materials, and research in secondary social studies. Individual projects on new curriculum developments in one of the following areas: history, geography, civics, economics, sociology, anthropology, or psychology.

828B. Teaching Adult and Young Farmer Classes in Agriculture
Fall, Summer. 3(3-0) Approval of department.
Objectives of adult education in agriculture, organizing and promoting classes, course planning, instructional procedures, follow-up and evaluation.

828C. Continuing Education: Learning Theory and Program Development
(928A.) Winter, Summer. 3(2-2) Twelve credits in Education, approval of department. Theories of adult learning and community development, their implications for design and management of continuing education, and alternative methods for integrating social and physical environments, materials, media and personnel to increase knowledge and enhance personal and social maturity.

828D. Instructional Methods in Business and Industry
Winter, Summer. 3(3-0) Approval of department.
Designed for personnel responsible for the training function. Various instructional methods examined with emphasis on the conference method of problem solving.

828E. Principles and Problems of Instruction in Higher Education
Fall, Winter, Spring. 3(3-0) Approval of department.
Instructional problems in the various areas of higher education with emphasis on common principles underlying each of them.

830A. Special Methods and Materials of Teaching
Fall, Winter, Spring. 3(3-0) May reenroll in different subject-matter areas for a maximum of 15 credits. Graduate student in education, undergraduate methods course in reading; approval of department. Develops an understanding of the basic principles and techniques of effective instruction in the various subject-matter areas in the school curriculum. Students will be expected to investigate research as it relates to the improvement of instruction in a special field of study.

830B. Problems in Elementary Reading Instruction
Fall, Winter, Spring. 3(3-0) Graduate student in education, undergraduate methods course in reading; approval of department. For experienced teachers. Includes consideration of the basic aspects of ability to read, desirable reading attitudes, habits, and skills. Practices and materials used in reading programs are examined and appraised. Outstanding investigations dealing with problems in this area are studied and evaluated.

830D. Methods in Reading at the Secondary Level
Fall, Winter, Spring, Summer. 3(3-0) Graduate students; teaching experience; approval of department.
An analysis of the reading problems of high school and college students. Material and procedures for identifying the reading attainments and needs of the individual. Basic principles and techniques for improving reading skills.

830E. Diagnosis of Reading Difficulties
Fall, Winter, Spring, Summer. 3(2-2) Graduate students in education; ED 830C or ED 830D. Approval of department.
Causes and types of reading retardation are considered, and procedures for working with retarded readers are examined. Laboratory experiences in administering and interpreting standardized and informal tests are provided.

830F. Clinical Practice in Remedial Reading
Fall, Winter, Spring, Summer, 3(3-0) Graduate students in education; ED 830C or ED 830D; ED 830E recommended, approval of department.
Students work with individual cases, observe and practice group procedures in the University reading clinic.

830G. Methods of Teaching Agricultural Mechanics
Winter. 3(3-0) Approval of department.
Methods of instruction including program planning, scheduling, use of teaching aids, management of buildings, utilities and equipment; the selection, organization, and evaluation of activities in farm mechanics.

830H. Seminar in Developmental Reading
Fall, Winter, Spring. 3(3-0) ED 830F.
Focuses on subject matter of reading and reading instruction factors which psychologically influence the acquisition of reading skills, the implementation of developmental reading programs and evaluation of such programs.

830I. Seminar in Diagnostic and Remedial Reading
Fall, Winter, Spring. 3(3-0) ED 830F.
Focuses on the psychological and physiological nature of reading retardation, the relationships between clinical reading programs and the larger curriculum environment, and the role of the reading diagnostician.

831A. Educational Media in Instruction
Fall, Winter, Spring. 3(3-0) Students may not receive credit in both ED 431 and ED 831A.
Improvement of teaching through educational media. Learning principles; nature and application of films, filmstrips, slides, transparencies, flat pictures, developmental boards, models, tape recordings, radio and television, and equipment operation.

831B. Graphics Design and Use in Instruction
Fall, Winter, Spring. 3(3-0) ED 831A or approval of department.

831C. Photography in Instruction
Fall, Spring. Summer. 3(3-0) ED 831B, or approval of department.
Design, production, and use of photographic materials for instruction. Production of photographs, slides, filmstrips, overhead transparencies, sound tapes, and motion pictures. 35mm still camera (preferably a single lens reflex) required.

831D. Instructional Materials in Vocational and Practical Arts Education
Winter of odd-numbered years, Summer. 3(3-0) Approval of department.
For teachers of agriculture, business, home economics, industrial arts and vocational-industrial education. Selection, preparation and use of distinctive materials that characterize shop and laboratory instruction.

831E. Planetarium Instruction and Management
Summer. 4(4-0) Approval of department.
Planning and instruction using modern planetarium facilities.

832. Advanced Methods and Materials in Special Education
C. Learning Disabilities
Winter. Summer of odd-numbered years. 3(3-0) ED 4278, student teaching or clinical experience with handicapped or approval of department.
Approaches to remediation of learning disabilities in the classroom. Identification, evaluation, methods, materials, aids, and programs, are considered within major theoretical structures.

D. Mentally Handicapped Children and Youth
Winter. 3(3-0) ED 432A, ED 432B, ED 432C.
An analysis of research, trends, and programs in the area of mental retardation. Emphasis upon the relationship these factors have to problems of curriculum, teaching methods, guidance of students, and general classroom management.

E. Emotionally Impaired Students
Summer. 3(3-0) ED 432A, ED 432B, ED 432C.
Review and analysis of recent research findings, intervention strategies, and curriculum developments applicable to emotionally impaired children and youth.

833. Teaching Elementary School Mathematics
Fall, Summer. 3(3-0) Experience in teaching and approval of department.
Advanced methods and materials used in teaching mathematics concepts in the elementary school.

834. Teaching Elementary School Geometry
Winter. Summer of odd-numbered years. 3(3-0) Experience in teaching and approval of department.
Advanced methods and materials used in teaching concepts of informal geometry, coordinate geometry, metric geometry, transformational geometry and measurement topics.

835. Teaching Elementary School Arithmetic
Fall. Spring. Summer of even-numbered years. 3(3-0) Experience in teaching and approval of department.
Advanced methods and materials used in teaching concepts of the whole, integer, rational and real number systems including systems of numeration.
836. Elementary Education: School Mathematics Instruction
Winter, Summer. 3(3-0) Experience in teaching and enrolled in mathematics education.
Review of the literature-theoretical and research-on instruction in school mathematics includes planning, group instruction, individual instruction, evaluation and instructional materials.

837A. Supervision of Student Teaching
Summer. 3(3-0) Approval of department.
Designed to assist supervising teachers in guidance of student teachers. In addition to a general overview of the problems of student teaching, the following topics will be studied: trends in teacher education, orientation of student teachers to student teaching, responsibilities of the supervising teacher, relationships between supervising teachers and college personnel, conferences with student teachers, and evaluation of student teaching.

1DC. Interdisciplinary Seminar on Africa
For course description, see Interdisciplinary Courses.

839. Program Development in Distributive Education
A. Principles and Organization
Fall, Summer. 3(3-0)
Goals, historical background, and trends; contributions to individual development and manpower needs; program organization for secondary, post-secondary, and adult levels; overview of curriculum and instructional strategies; program evaluation.
B. Curriculum Development
Winter, Summer. 3(3-0) ED 839A or approval of department.
Adapting content of marketing and related disciplines to develop occupational competencies; selection of learning experiences, materials, and media; development of performance goals related to career objectives, scope and sequence patterns.
D. Seminar in Distributive Education
Summer. 2 to 3 credits. Advanced graduate standing or approval of department. Focus on current issues and problems, curriculum development projects, and research; emphasis upon individual investigations and writing.

840. Improving Instruction in Business Education
Improving instructional processes through research findings, readings, and experience. Objectives, scope and sequence, diagnosis of learning difficulties, selecting learning activities, evaluating achievement, selecting materials and equipment.
A. Typewriting and Office Procedures
Summer. 3(3-0) Experience in teaching.
B. Shorthand and Transcription
Summer. 3(3-0) Experience in teaching.
C. Data Processing
Summer. 3(3-0) Experience in teaching.
D. Distributive Subjects
(839C) Summer. 3(3-0) Experience in teaching.
Selecting appropriate teaching strategies; use of project method, laboratory simulations, on-the-job training, youth organizations, and other methods; evaluation of student achievement.

841. Driver and Traffic Education
A. Innovations in Driver and Traffic Education
Fall. Summer of odd-numbered years. 3(3-0)
Explanation of the broad spectrum of innovations in driver and traffic education. Particular emphasis will be placed on their adoption and application for improving classroom and laboratory instruction.
B. The Highway Transportation System
Spring. Summer of even-numbered years. 3(3-0)
Overview of the development, management and operation of the highway transportation system and its implications for the traffic safety educator.
C. Principles of Traffic Communications
Winter. Summer of odd-numbered years. 3(3-0)
Specialized problems involved in traffic safety communications in a transportation center society. Design and manipulation of the communication process to better understand and influence driver behavior. Planning public information and community support programs.
D. Motor Vehicle Administration
Fall. Summer of even-numbered years. 3(3-0)
Functions of motor vehicle administration in highway traffic administration. Driver licensing, motor vehicle inspection, vehicle titling and registration, and financial responsibility as legal and administrative methods of driver and vehicle control.

842A. Curriculum and Program Planning
Summer. 3(3-0)
Needs and goals in education and manpower training for business, general business and economic education; program structure; professional and youth organizations; related legislation and historical background.

842B. Contemporary Issues in Education for Business
Summer. 3(3-0) Twenty-four graduate credits or approval of department.
Analysis and discussion of selected issues relating to: 1. education for business structure, manpower needs, legislation, curriculum, training by government and business, 2. curriculum and instruction. Emphasis upon problem-solving and extensive reading.

842D. Seminar-Research in Business Education
Summer. 2 to 3 credits. Prior course in research or approval of department.
Emphasis on review of research and developmental projects and application to business education program; study of design particularly to student's personal research interests.

843. Program Development in Office Education
A. Strategy and Structure
Fall. Summer. 3(3-0) Twelve graduate credits in Business or Vocational Education or approval of department.
Criteria of vocational office education planning or organizing a program; curriculum patterns including block-time and tenor intensive, content scope and sequence, program evaluation, special attention to legislation and curriculum research.

844. Research in Elementary Social Studies Instruction
Spring of even-numbered years. 3(3-0)
ED 830A.
Focuses on role, function, and design of research studies on the improvement of social studies instruction in elementary and middle schools.

845. New Social Studies Curriculum
Spring of odd-numbered years. 3(3-0)
ED 830A.
Focuses on new and emerging elementary and middle school social studies curricula. Specific attention given to selection and analysis of curricular models, programs, and materials; adaptation to specific needs of schools.

846. Specialized Methods and Materials for Teaching Elementary Science
Fall, Spring, Summer. 3(3-0) Experience in teaching; approval of department.
Develops additional competency in science education for the experienced teacher at elementary and middle school levels. Specialized methods for individual and group instruction are emphasized and evaluated.

847. Seminar in Elementary Science Education I
Winter, Summer. 3(3-0) Experience in teaching; ED 3257 or ED 446 or approval of department.
Philosophical and psychological concepts relevant to the objectives and implementation of science education and a review of research in teaching science at the elementary level.

848. Individual Problems in Elementary and Middle School Science Education
Fall, Winter, Spring. Summer. 1 to 3 credits. May reenroll for a maximum of 6 credits. ED 846 or ED 847; teaching experience.
Identification of one or more problems in elementary or middle school science to be studied independently. Problem analysis would typically include readings, action research and original composition.

849. Trends and Issues in Language Arts
Fall, Summer of odd-numbered years. 3(3-0) ED 830A.
To investigate and criticize trends, issues and research in language arts programming and instruction.
850. The Teacher and Administrative Leadership
Fall, Winter, Spring, Summer. 3(3-0)
Twelve credits in Education and approval of department.
Not intended for school administration majors. Theory and practice underlying administration of schools in a democratic society. Intended for educational personnel seeking basic information in such areas as educational organization, roles of administrative leadership in schools and communities, and teacher's roles in administration.

851. Foundations of Administration
Emphasizes basic administrative theory and research, focuses on current practice and emerging trends in such problems and issues as personnel, plant, finance, community school programs, and instructional improvement. Intended primarily for persons actively preparing for administrative positions in schools and other educational agencies.

A. Theory and Organization
Fall, Winter, Summer. 3(3-0) Approval of department.

B. Practice and Problems
Winter, Spring, Summer. 3(3-0) ED 851A or approval of department.

852. Administration of Educational Institutions
Exploration of the nature and scope of responsibilities of areas in educational administration. Designed to serve as an initial application of administrative theory for those aspiring to one of the several areas.

A. Elementary School Administration
Winter, Summer. 3(3-0) Twelve graduate credits in Education including ED 851A, ED 851B, or approval of department.

B. Secondary School Administration
Fall, Winter, Spring, Summer. 3(3-0) Twelve graduate credits in Education including ED 851A, ED 851B, or approval of department.

C. Instructional Supervision
Fall, Winter, Summer. 3(3-0) Twelve graduate credits in Education including ED 851A, ED 851B, or approval of department.

D. Business Administration of Schools
Fall, Winter, Spring, Summer. 3(3-0) Twelve graduate credits in Education including ED 851A, ED 851B, or approval of department.

852E. Middle School Administration
Winter, Summer. 3(3-0) Twelve graduate credits in education including ED 851A, ED 851B, or approval of department. Organization and administrative aspects of middle schools. Emphasis on basic characteristics of a middle school and how the administrator implements these characteristics. Research on middle schools studied.

853. Administration of Educational Programs
Designed to promote the study of application of theory and research to specialized program areas. persons will normally select the section allied to their major program area.

A. Audio-Visual Programs
Winter, Summer. 3(3-0) Twelve graduate credits in Education including ED 850 or approval of department.

B. Vocational Education Programs
Summer. 3(3-0) Twelve graduate credits in Education including ED 850 or approval of department.

C. Administration of Pupil Personnel and Guidance Programs
Spring, Summer. 3(3-0) ED 851B.

D. Administration of Special Education Programs
Winter, Summer. 3(3-0) Approval of department. Organization and administrative aspects of special education programming. Federal, state, interdepartmental and local district level programs in special education are reviewed.

855. Research in Educational Administration
Fall, Winter, Spring, Summer. 3(3-0) ED 851A, ED 851B, ED 857.

The identification of an individual research problem and the application of principles and techniques of educational research in seeking a solution to the problem.

856. Creativity in Education
Fall, Summer. 3(3-0) Teaching Experience.

Definitions, manifestations, processes and theories of creativity, experiences with modes of creative expression and problem solving techniques. Development and application to the education profession. Field trips may be required.

857. Futuristics and Education
Spring, Summer. 3(3-0) Teaching experience.

Current educational programs in futuristics. Development of concepts, materials and programs related to education in and for the future. Proposed methodology for the future.

861. Elementary School Curriculum
Winter, Summer. 3(3-0) Regular admission to graduate program and approval of department.

Curriculum definition as related to purposes of the elementary school; foundations and rationale for curriculum study, revision, and improvement; procedures and organizational aspects of curriculum planning; key components of new educational curricular designs.

862. Elementary Education Trends and Current Research
Fall, Winter, Spring, Summer. 3(3-0)
Completion of 27 credits of graduate course work on a regular program and approval of department.

Advanced graduate students (those nearing completion of the M.A. program or on the doctoral program) are given an opportunity to explore current research activities.

863. Trends and Uses in Children's Literature
Winter and Summer of odd-numbered years. 3(3-0) ED 830A.

Provides graduate students an opportunity to discuss and evaluate current research related to children's literature as well as juvenile books and to conduct an in-depth study in the field of children's literature.

864. The Teaching of Critical Reading
Winter and Summer of even-numbered years. 3(3-0) ED 830A.

Provides graduate students an opportunity to study current research in critical reading, to identify and evaluate appropriate instructional materials, and to conduct an in-depth study in the field of critical reading.

865. Principles of Educational Measurement
Winter, Summer. 3(3-0) ED 464 or ED 465; ED 899.

Nature of measurement and types of scales. Units, scores, norms, sampling, item analysis, batteries and profiles. Principles of reliability and validity. Use of test scores in decision making.

866. Appraisal of Individual Intelligence and Personality
A. Individual Measurement—Binet
Winter, Summer. 3(3-0) ED 464 or ED 465 or PSY 415; approval of department.


B. Individual Measurement—Wechsler
Fall, Spring, Summer. 3(3-0) ED 464 or ED 465 or PSY 415; approval of department.

Measurement of intelligence with the Wechsler scales. Observation, practice, supervision, and interpretation.

C. Personality Assessment in Education
Spring. 3(3-0) ED 464 or ED 465; ED 513 or PSY 427.

Study of general personality structure and methods in personality assessment related to education.

867. Educational Research Methods
Fall, Winter, Spring. 3(3-0)

Approval of department.

Rationale for and methods of research in education. Emphasis is given to the identification of researchable problems and the interpretation of research studies in the student's major field.

868. Evaluation of Programs of Vocational and Practical Arts Education
Fall, Winter, Spring. 3(3-0)

Approval of department.

Evaluation principles and practices in the specialized areas of agricultural, business, and industrial education.

869. Quantitative Methods in Educational Research
Fall, Winter, Spring. 4(3-1)

Pretest and approval of instructor.

Application of descriptive statistical techniques to educational data. Introduction to estimation and tests of hypotheses. Interpretation of statistical reports.

871. The Secondary School: Role, Function and Structure
Fall, Winter, Spring. 3(3-0)

Teaching experience in secondary school classrooms.

Examines the role, function and structure of various secondary schools. Emphasizes the relationships that do and should exist with other segments of the educational enterprise as well as with external agencies, organizations and institutions.

872. The American Secondary School Student
Fall, Winter, Spring. 3(3-0)

Teaching experience in secondary school classrooms.

Focuses upon the issues and problems confronting the secondary school student as an adolescent and/or young adult. Attention is given to the relevance of school curriculums and staff competencies to meeting these needs of secondary students. Emphasis will be placed upon developing guidelines for needed change.
873. Student Development and College Personnel Services I
Fall. 3(3-0) Majors in College Student Personnel; approval of department.
This course focuses on the development and administration of college student personnel as a profession. Emphasis upon the college student as an individual and a study of services, programs, and staff skills needed to provide for his growth, needs and development.

874. Student Development and College Personnel Programs II
Winter. 3(3-0) Majors in College Student Personnel; approval of department.
Emphasis upon the student as a member of groups; peer and group influence and behavior; student organizations and group activities, services, strategies and staff skills for conducting such programs.

875. Student Development and College Personnel Programs III
Spring. 3(3-0) Majors in College Student Personnel, approval of department.
Study of living and learning environments and related staff activities and programs which affect student behavior and development; examination of personal qualities, professional organizations and other factors associated with being a professional person.

876. The American College Student
Fall, Winter, Summer. 3(3-0) Students in graduate degree programs or approval of department.
Analysis of research data, theory, hypotheses and strategies regarding the nature of the college student and his learning environment.

877. Educational Program Evaluation
Winter. 3(3-0) ED 589.
History and current status of program evaluation, including a review of various evaluation methods, common problems of implementation and alternative evaluation designs.

878. Research in Higher Education
Fall, Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 9 credits. MA candidates in Administration and Higher Education, ED 587.
Problems and practices in Higher Education Administration. Development of research prospect, review of significant literature, conduct of research under supervision, and presentation of findings and conclusions.

881. Workshops in Education
Fall, Winter, Spring. 1 to 6 credits. May reenroll for credit. Approval of department.
Laboratory approach which provides opportunities for experienced educational personnel to concentrate their study on common administrative and supervisory problems.

882. Seminars in Education
Fall, Winter, Spring. Variable credit. Approval of department.
Seminars in the various fields of emphasis.

883. Readings and Independent Study in Education
Fall, Winter, Summer. 1 to 6 credits. May reenroll for a maximum of 9 credits. Approval of department.
Study on an individual or group basis in the various fields of emphasis.

884. Laboratory and Field Experience in Education
Fall, Winter, Spring, Summer. Variable credit. Approval of department.
Supervised graduate practicums, observation, internships, and externships in the various areas of emphasis.

885. Educational Program Evaluation
Winter. 3(3-0) ED 589.
Supervised graduate field experience in educational and administrative programs for the emotionally impaired.

887. Seminar: Continuing Education Leadership in Local Communities
Spring. 3(3-0) May reenroll for a maximum of 6 credits. Majors or approval of department.
Formal and non-formal community education for adults. Administration, agency cooperation, accountability, ethical and political concerns, managing controversy, and balancing objective study with advocacy in programs of personal and community development.

889A. Issues in Education of the Handicapped
Spring. 3(3-0) Special Education majors only, approval of instructor.
This seminar focuses on crucial issues related to programming for emotionally impaired students.

889B. Issues in Education of Emotionally Impaired
Fall, Spring. 3(3-0) Special Education majors only, approval of instructor.
Current issues in the area of mental retardation are identified, researched, and discussed.

889C. Issues in Mental Retardation
Spring, Summer. 3(3-0) Approval of department.
Current issues in the area of mental retardation are identified, researched, and discussed.

889D. Psychoeducational Diagnosis of the Handicapped
Fall, Spring. 3(3-0) Approval of department.
Emphasis upon principles of assessment and their utilization in the classroom. An interdisciplinary approach in assessment techniques delineating theory and application.

889E. Analysis of Special Education Research
Winter. 3(3-0)
Analysis of research studies in each special education disability area. Study of research design and procedures; discussion of theoretical and applied issues relating to the contents of the studies.

889F. Parent-Teacher Relationships in Special Education
Spring. 3(3-0)
Development of skills for parent-teacher conferences and consultant-teacher relationships. Strategies for managing home-school relationships in special education. Special problems of parents of handicapped children.

889G. Community Agency Programs for the Handicapped
Summer. 3(3-0) Approval of department.
Various official and voluntary agencies and organizations which offer programs and services for the handicapped are studied. The relationship of these programs to special education.

890A. Field Experience: Education of Deaf
Fall of odd-numbered years. 2 to 8 credits. May reenroll for a maximum of 10 credits. Graduate students, prior teaching or clinical experience.
Supervised graduate field experience in educational programs for the deaf and hearing impaired.

890B. Field Experience: Emotionally Impaired
Fall, Winter, Spring. 3 to 12 credits. May reenroll for a maximum of 18 credits. MA candidates in special education—emotionally impaired, approval of department.
Supervised graduate field experience in educational programs for the emotionally impaired.

890C. Field Experience: Mental Retardation
Fall, Winter, Spring. Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. Approval of instructor.
Supervised graduate field experience in educational programs for the mentally retarded.

890D. Field Experience: Teaching Visually Handicapped Learners
Fall, Winter, Spring. 3 to 12 credits. May reenroll for a maximum of 16 credits. Approval of department.
Supervised graduate field experience in educational programs for the visually handicapped.

890E. Field Experience: Teaching Blind/Deaf Learners
Fall, Winter, Spring. 3 to 12 credits. May reenroll for a maximum of 18 credits. Approval of department.
Supervised graduate field experience in educational programs for the blind/deaf.

890F. Field Experience: Learning Disabilities
Summer. 3 to 12 credits. May reenroll for a maximum of 12 credits. ED 427B, ED 886D, ED 89C.
Supervised graduate field experience in educational programs for those with learning disabilities.

891A. Independent Study: Education of Deaf
Spring. 2 to 5 credits. May reenroll for a maximum of 10 credits. Graduate students.
Supervised study in deaf education conducted according to a written agreement stating the problem or topical area of study, the methodology and the product of the study.

891B. Independent Study: Emotional Impairment
Winter, Spring. 2 to 6 credits. May reenroll for a maximum of 12 credits. Graduate students.
Supervised study in emotional impairment conducted according to a written agreement stating the problem or topical area of study, the methodology and the product of the study.
891C. Independent Study: Mental Retardation
Fall, Winter, Spring, Summer. 1 to 12 credits. May reenroll for a maximum of 12 credits. Approval of instructor.
Supervised study in mental retardation conducted according to a written agreement stating the problem or topical area of study, the methodology and the product of the study.

891D. Independent Study: Visually Handicapped or Blind/Deaf
Fall, Winter, Spring. 3 to 12 credits. May reenroll for a maximum of 12 credits.
Supervised study in visually handicapped or blind/deaf conducted according to a written agreement stating the problem or topical area of study, the methodology and the product of the study.

891E. Independent Study: Learning Disabilities
Spring. 3 to 15 credits. May reenroll for a maximum of 12 credits.
Supervised study in learning disabilities conducted according to a written agreement stating the problem or topical area of study, the methodology and the product of the study.

891F. Independent Study: Special Education
Fall, Winter, Spring. 3 to 6 credits. May reenroll for a maximum of 12 credits. Approval of instructor.
Supervised study in special education conducted according to a written agreement stating the problem or topical area of study, the methodology and the product of the study.

899. Research
Fall, Winter, Spring, Summer. 2 to 12 credits. Approval of department.

901. Educational Sociology: Seminar
Fall, Winter. 3 or 4 credits. Approval of department. Interdepartmental with and administered by the Department of Sociology.

904. Historical and Comparative Foundations of Education: Advanced Comparative and International Education
Spring. 3(3-0) ED 804B; ED 804C.
Objectives, content, methodology, research problems of comparative and international education analyzed. Social and cultural forces affecting educational planning and institutional building studied. Agencies involved in international education identified.

911. Educational Psychology Seminar
Fall, Winter, Spring. 3(3-0) May reenroll for a maximum of 15 credits. Doctoral candidates or approval of instructor. Educational psychology doctoral candidates must enroll in the fall.
History of educational psychology, learning and cognition, personality and self-concept development, social psychology of classroom behavior, social learning theory, school psychology, research on teaching.

917C. Counseling Supervision in Urban Settings
Fall, Winter. Spring. 3(1-12) May reenroll for a maximum of 9 credits. ED 817C (12 credits).
Supervised study in counseling with urban settings as a focus. Practice in supervising master's level students in Urban Counseling field experiences.

921. Curriculum Research Seminar
Spring. 3(3-0) ED 867; ED 821A.
Identification of researchable variables in the curriculum of an educational institution or program. Design of descriptive, evaluative and experimental studies within ongoing complex social systems.

922. Research on Teaching
Fall. 3(3-0) ED 867.
Implications from findings of the major investigations into teaching processes. Related to the curriculum of in-service and pre-service teacher education.

931A. Seminar in Instructional Technology: Research and Development
Fall. 3(3-0) Approval of department.
History and development of instructional technology emphasizing leaders, events, research and legislation affecting use of instructional technology in education.

931B. Seminar in Instructional Technology: Research and Development
Winter. 3(3-0) Approval of department.
Analysis and appraisal of selected research studies in instructional technology with attention to purposes, rationales, assumptions, designs, methodologies and findings.

931C. Seminar in Instructional Technology: Research and Development
Spring. 3(3-0) Approval of department.
Analysis and appraisal of student's dissertation proposals and reports on surveys of related literature.

933. Elementary Education: School Mathematics Learning
Spring. 3(3-0) Experience in teaching and enrolled in mathematics education.
Extensive review of the research of Bruner, Freudenthal, Gagne, etc. on how students learn in general and how they learn mathematics in particular.

934. Elementary Education: School Mathematics Curriculum
Fall. 3(3-0) Experience in teaching and enrolled in mathematics education.
Emphasizes the place of mathematics in the curriculum, the strands of mathematics that should be included—the ordering of topics of each strand and emphasis of the respective strands.

940. Research Study in Higher Education Administration
Fall, Winter, Spring, Summer. 1 to 6 credits. May reenroll for a maximum of 6 credits. Admitted and enrolled doctoral students majoring in higher education administration programs.
Supervised and guided in-depth readings in literature and research specific to higher education administration which lead to the development of position papers, articles for publication, grant and dissertation proposals, etc.

944. Administration of Athletic Medicine and Health
Fall, Winter, Summer. 3(3-0) Graduate students or interscholastic coaches.

950. Theory and Practice of Administration
Fall, Winter, Spring, Summer. 3(3-0) Approval of department.
Administrative process as exemplified in agencies such as schools, colleges, universities, government agencies, business enterprises, and voluntary organizations. Relation of administrative theory to the practice of administration and to scientific knowledge of human relations in a free society.

951. Community Relations
Winter, Spring, Summer. 3(3-0) Approval of department.
Communications strategies and problems for administrators of educational institutions. Problem identification and analysis are stressed.

952. Educational Finance
Fall. Summer. 3(3-0) Approval of department.

953. Education Law
Fall, Winter. Spring. 3(3-0) Approval of department.
Designed to discover general legal principles and examine laws and regulations that affect educators and educational institutions and appropriate means to influence the practice of education.

954. Planning Facility Learning Environments
Spring, Summer. 3(3-0) Approval of department.
A multidisciplinary approach to the learning environment of the individual through life-long educational experiences. Role of the educator and specialists in facilitating the educational program. Sites, buildings and equipment.

955. Educational Personnel Administration
Fall, Spring, Summer. 3(3-0) Approval of department.
Recruitment, selection, orientation, training, salary and fringe benefits, welfare, morale, negotiations, etc. to assist the administrator to function more effectively with personnel.

956. Planning Change in Educational Organizations
Winter, Summer. 3(3-0) Approval of instructor.
Analysis of research, theory and practice of the change of process in educational organizations. Planned change concepts and methods are examined and tested by laboratory and field experiences.

957. The Department in Higher Education
Winter. 3(3-0) Approval of department.
The Department as an administrative structural element of the University. The duties and responsibilities of the chairperson as they relate to the management of the Department.

958. Management Systems in Higher Education Administration
Fall. Spring. 3(3-0) Approval of department.
The application of National Center for Higher Education Management Systems tools to decision making in higher education administration.
Resource Requirement Prediction Model 1.6, student flow and faculty activity analysis are major tools investigated.

Education - Descriptions of Courses
C. Experimental Design in Education
Winter, Spring, Summer. 4(3-1) ED

969B. Theory and practice in the design, analysis and interpretation of experimental and quasi-experimental research.

970. Reading and Research in Student Teaching
Spring. 3(3-0) Approval of department.

971. Advanced Educational Research
Fall, Winter, Summer. 3(3-0) Approval of instructor.

Survey of advanced educational research. Emphasis on current issues which have implications for counseling practice or for counselor education.

972. Education Policy
Fall, Winter, Summer. 3(3-0) Approval of instructor.

Emphasis on current issues which have implications for counseling practice or for counselor education.

973. College Student Personnel Administration I
Spring. 3(3-0) Approval of department.

Emphasis on planning, organization, financing, research, evaluation and administration of higher education programs and services which exist principally to serve individual student needs: counseling, orientation, health, placement, financial aid, etc.

974. College Student Personnel Administration II
Winter. 3(3-0) Approval of department.

Student organizations and activities; student union; on and off-campus living environments. Emphasis on planning, organization, financing, research, evaluation and administration of these programs and services.

975. College Student Personnel Administration III
Spring. 3(0-3) Approval of department.

Analysis of student rights and responsibilities; academic freedom; regulation of student conduct; systems of governance and judicial processes; legal basics for student personnel programs and administration.

976. Teacher Assessment and Development
Fall. 3(3-0) Completion of 27 credits at graduate level.


977. Seminar: Continuing Education in Higher Education Institutions
Fall. 7(3-0) May reenroll for a maximum of 6 credits. Majors or approval of department.

Continuing education in higher education institutions. Emphasis on the role of the teacher in the professional development of students.

983. Readings and Independent Study in Education
Fall, Winter, Spring. 3(3-0) Approval of department.

Study of an individual or group basis in the various fields of emphasis.

984. Laboratory and Field Experience in Education
Fall, Winter, Spring. 3(3-0) Approval of department.

Supervised advanced graduate practicum, observation, internships, and externships in the various areas of emphasis.

985. Counseling Pre-Practicum
Spring. 3(2-1) Doctoral status in college counseling or related area and approval of department.

Seminar emphasizing establishing good interpersonal relationships, self-understanding, an understanding of psychodynamics, and test interpretation as preparation for assuming counseling responsibilities. Approach is didactic and experimental with limited contacts with clients.

986A. Counseling Practicum I
Fall. 3(3-0) ED 985 or approval of department.

Supervised experience working with college students in a counseling relationship. Group discussions, group supervision and observation of counseling interviews, and individual supervision.

986B. Counseling Practicum II
Winter. 3(3-0) ED 986A.

Supervised experience working with college students in a counseling relationship. Group discussions, group supervision and observation of counseling interviews, and individual supervision.

986C. Counseling Practicum III
Spring. 3(3-0) ED 986B.

Supervised experience working with college students in a counseling relationship in the residence halls. Individual supervision, increased client contact hours, and participation in staff activities.

987A. Seminar: Continuing Education in Higher Education Institutions
Fall. 3(3-0) May reenroll for a maximum of 6 credits. Majors or approval of department.

Continuing education in higher education institutions. Emphasis on the role of the teacher in the professional development of students.

987B. Seminar: Continuing Education in Higher Education Institutions
Winter. 3(3-0) May reenroll for a maximum of 6 credits. Majors or approval of department.

Continuing education in higher education institutions. Emphasis on the role of the teacher in the professional development of students.

988. Behavioral Counseling Laboratory
Fall, Winter, Spring. 1 to 6 credits. May reenroll for a maximum of 21 credits.

Supervised experience in behavioral counseling (individual and group), community consultation, applied behavioral research, journal manuscript preparation, preparing instructional materials, and instructional management.

990A. Field Experience: Special Education Administration Simulation
Spring. 3(0-3) Approval of department.

Supervised graduate practicum in administration of the Special Education program of a simulated school district.

990B. Field Experience: Special Education Administration
Fall, Winter, Spring. 3 to 12 credits. May reenroll for a maximum of 18 credits. Approval of department.

Supervised graduate practicum in special education administration.

990C. Field Experience: Special Education
Spring. 3 to 12 credits. May reenroll for a maximum of 18 credits. Approval of department.

Supervised graduate practicum in special education teacher training.

999. Research
Fall, Winter, Spring. 3(3-0) Approval of department.