

4860. Reading and the Language Arts in Grades EC-8. 3 hours. Problems related to the comprehension and expansion of symbols of meaning; the interrelationship of reading with other areas of language arts. Prerequisite(s): admission to the teacher education program, which includes participation in a field-based program; EDEE 3320 and 3380; required courses in the reading/English/language arts part of the academic major and required DFEC courses.

4870. Cross-Curricular (Content Area) Literacy Materials and Resources. 3 hours. Prepares pre-service teachers within both EC-4 and 4-8 certificate programs to plan for and implement literacy instruction across the curriculum. Selecting, evaluating and using developmentally and culturally appropriate materials and resources will be a focus as well as using content literacy strategies which support independent reading and writing in the content areas. Prerequisite(s): admission to the teacher education program; EDRE 4450 (for EC-4) or EDRE 4820 (for 4-8).

4900-4910. Special Problems. 1-3 hours each.

Secondary Education, EDSE

3800. Legal, Organizational and Professional Issues in Teaching. 3 hours. An overview of American secondary education, including history, purposes, legal bases, school organization, education as a profession and analysis of characteristics required for professional success. Prerequisite(s): junior standing and admission to teacher education. May be taken concurrently with EDSE 3830 and/or 4840.

3830. Teaching/Learning Process and Evaluation. 3 hours. Examines the processes of learning and the phenomena of adolescent development as they relate to teaching in the secondary school. Prerequisite(s): EDSE 3800 and admission to teacher education, or permission of program area.

4060. Content Area Reading in Secondary Schools. 3 hours. (0;0;3) Provides an overview of the reading process with emphasis on reading to learn in the secondary school content areas. Course provides knowledge and skills for identifying reading problems, modifying instructional materials and processes, and using writing to promote learning and thinking in the content areas. Instruction, assignments, directed field experience and other class activities may take place on site in a school setting. Prerequisite(s): EDSE 3800 and admission to teacher education.

4070. Teaching Diverse Populations. 3 hours. (0;0;3) Provides knowledge and skills required for developing and implementing challenging instruction for students who are culturally different, students who receive special education services and students who are identified as gifted and talented. Instruction, assignments, directed field experience and other class activities may take place on site in a school setting. Prerequisite(s): EDSE 3800 and admission to teacher education.

4108-4118. Student Teaching in the Secondary School. 3 hours each. Teaching under supervision. Prerequisite(s): EDSE 3800, 3830 and 4840, and senior standing. Required for those seeking secondary certification. See Student Teaching Program for details. Pass/no pass only.

4800-4810. Studies in Education. 1-3 hours each. Organized classes for program needs and student interest. Prerequisite(s): consent of department. Limited-offering basis. May be repeated for credit.

4840. Instructional Strategies and Classroom Management. 3 hours. (0;0;3) Provides knowledge and skills required for organizing and directing various instructional strategies in the secondary classroom. Content includes teaching strategies, approaches to classroom management and discipline, student motivation, student and teacher assessment and evaluation, and the use of media and technology in the classroom. Instruction, assignments, directed field experience and other class activities may take place on site in a school setting. Prerequisite(s): EDSE 3800 and admission to teacher education. Must complete 55 hours of field experience in a PDS.

4900-4910. Special Problems. 1-3 hours each.

Technical Writing

see *Graduate Catalog*

Technology and Cognition

Applied Technology, Training and Development, ATTD

1100. Introduction to Keyboarding and Document Formatting. 3 hours. An entry-level course designed for students who have had no more than one term/semester of typewriting/keyboarding in high school or prior college credit. The course allows students to learn proper keyboard techniques, how to format documents and explore popular word processing programs.

3010. Personal Development. 3 hours. Course provides opportunities for students to develop themselves professionally. Special emphasis is placed on image development for a chosen career and strategy development to launch that career. Time management, money management, business etiquette, selecting mentors and role models are also addressed.

4070. Principles of Leadership, Empowerment and Team Building. 3 hours. The nature and scope of leadership and empowerment as it relates to applied technology and industrial training environments; the techniques for leadership, empowerment and team building are emphasized. Prerequisite(s): junior standing or consent of department.

4100. Principles of Training and Development. 3 hours. Investigates the design, delivery and evaluation of training and development programs. The relationship of modern technology and training theories are addressed.

4110. Instructional Design in Career and Technical Education. 3 hours. Development and use of resources for preparing contextual learning and instruction, presenting lessons and assessing learner performance. Strategies for infusing employability skills, work-based learning and applying instructional technology.

4120. Instructional Strategies in Career and Technical Education. 3 hours. Basic instructional techniques and media commonly utilized in applied technology, training and development; emphasis is placed on illustrated presentations and technical demonstrations.

4121. Technical Presentation Skills. 3 hours. Emphasis on technical presentation skills and electronic presentation media commonly utilized in training and development. Topics such as developing an audience profile, arranging facilities, topic introduction techniques, questioning and summary strategies are addressed.

4130. Professional Responsibilities and Management in Career and Technical Education. 3 hours. Examines the role and responsibilities of career and technical education professionals as well as the importance of creating a classroom and laboratory environment that fosters a positive learning climate. The role and responsibilities of career and technical education professionals as well as technology applications, effective time management, standards for student conduct and teacher liability are addressed.

4140. Work-Based Learning in Career and Technical Education. 3 hours. Study of the basic standards and recent changes in work-based learning. Emphasis is placed on developing materials to effectively facilitate the work-based learning component of a workforce education program.

4200. Performance Improvement in Education and Training. 3 hours. Introduction to the history, theory and practice of human performance technology in education and training. Explores the systemic process of analysis, intervention development, change implementation and process evaluation involved in performance improvement.

4230. Directed Occupational Internship in Industry or Training. 1-3 hours. (2000 clock hours equals one year of experience or 8 semester credit hours.) Supervised individual work experience in a recognized occupation or field of specialization. Prerequisite(s): consent of department. For those who meet the necessary state-mandated requirements for years of work experience these credits can be granted for successful completion of an occupational competency examination. May be repeated up to 24 hours of credit.

4300. Computer Applications in Education and Training. 3 hours. Two broad areas of applications (occupational and educational) are discussed and demonstrated. Course focuses on an integration of software packages in a project-oriented, real-world environment. Course is primarily hands-on with students working extensively on the computer and related hardware. Prerequisite(s): CECS 1100 or equivalent.

4340. Office Information Processes. 3 hours. Course combines skills of hardware and software use with an introduction to teaching methods needed to teach those skills to students in the K-12 office education classroom. Prerequisite(s): ATTD 4300.

4350. Advanced Computer Applications in Education and Training. 3 hours. Course is designed as an advanced preparation for students preparing to enter organizations in education or training that utilize modern computer-based technologies that include: graphic applications, telecommunications, networking, programming and computer-based training. Prerequisite(s): ATTD 4300.

4360. Desktop Publishing in Education and Training. 3 hours. Course emphasizes the application of desktop publishing theory and practices in education and training. Course utilizes desktop publishing software to create technical brochures, advertisements, newsletters and other publications in the industrial training organization or educational environment. Prerequisite(s): ATTD 4300.

4435. History and Principles of Applied Technology. 3 hours. A study of the historical development, founding principles and objectives of applied technology programs in the United States; focus on the types of programs, general organization and methods of delivery.

4440. Advanced Instructional Strategies. 3 hours. Emphasis on advanced instructional techniques; including questioning, discussion, problem-solving, motivation, and instructional development used in applied technology and industrial training setting. Prerequisite(s): COMM 1010 or ATTD 4120 or consent of department.

4470. Human Relations in Business, Education and Industry. 3 hours. A study of the components of human relations and interpersonal communication factors in business, education, trade and industrial education and training programs.

4490. Serving Learners from Special Populations in Applied Technology Programs. 3 hours. Introduction to identification, assessment, instructional and curriculum modifications, support services and evaluation of learners from special populations (e.g. disadvantaged, disabled and limited English-speaking) in applied technology programs. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.*

4510. Communications in Business, Education and Industry. 3 hours. Important factors in succeeding on the job. Emphasis is placed on communication, strategies for conducting meetings and seminars, conflict management, developing and arranging agendas, itineraries, minutes and business reports, designing and using business graphics, and job-getting communication.

4610. Problems in Industrial Cooperative Education. 3 hours. A review of basic standards, recent changes and the underlying reasons for such standards. Emphasis is placed on identifying, analyzing and reaching logical solutions to real problems encountered in the operation of the cooperative education program. Public relations and promotion of the cooperative program, the development of a course of study for general related material and the operation of adult education classes are included.

4630. Organization and Administration of Applied Technology Programs. 3 hours. A study of the organization and administration of applied technology programs, including techniques for the structure, delivery and evaluation of the educational function, budgeting, operations and staffing.

4730. Occupational Analysis and Course Development. 3 hours. Procedures for analysis of occupations, jobs and tasks for instructional planning and course development in vocational education and training programs.

4740. Instructional Internship in Applied Technology and Training. 3-6 hours. Supervised observation and instructional practice in an approved applied technology program or industrial training environment; discussion and evaluation seminars are scheduled. Prerequisite(s): consent of department.

4741. Applied Technology and Performance Improvement Capstone. 3 hours. A capstone course designed for students to synthesize the knowledge, skills and attitudes learned throughout the undergraduate degree in Applied Technology and Performance Improvement. Students will demonstrate their ability to articulate career pathways, apply technology in the workplace, and contribute to the organizational structure of either business and industry or education. Prerequisite(s): This course may only be taken during the final term/semester of the ATPI professional development sequence.

4800. Studies in Education. 1-3 hours. Organized classes for program and student interests and needs. Prerequisite(s): consent of department. Limited-offering basis. May be repeated for credit.

4900-4910. Special Problems. 1-3 hours each.

Computer Education and Cognitive Systems, CECS

1100. Computer Applications. 3 hours. Introduction to computer usage. Integrated approach to software tools such as word processing, data-base management, spreadsheet, communications and graphics applications.

2100. Surviving the Information Age. 3 hours. A collegiate guide to Internet resources and information procurement. Topics include: connecting to UNT resources, peripheral selection and use, tips for purchasing and using application software, an overview of graphics software, applications of the Internet, HTML code, methods of establishing an Internet connection, netcasting, voice and video conferencing, PC-based troubleshooting techniques, electronic research, and information processing using the Internet. Prerequisite(s): CECS 1100, or equivalent.

3220. Computer Graphics in Education and Training. 3 hours. Application of computer graphics to the preparation of multimedia and web-based materials. Includes principles of graphics communication, concepts in computer graphics, graphics input systems, graphics manipulation software, and graphics output systems. Prerequisite(s): CECS 1100.

3260. Web Authoring. 3 hours. Creation of web-based materials incorporating text, graphics, and multimedia elements. Emphasis on use of standards-based technologies for creating content for web-based delivery. Prerequisite(s): CECS 3220.

3440. Technology and the Teacher. 3 hours. Introduction to class presentation and teacher productivity systems, including graphic, audio, video and computer-based materials. Laserdiscs, videotapes, LCD systems and computer software for the classroom. Prerequisite(s): CECS 1100.

3530. Data Communications. 3 hours. Foundational skills in data communications. Covers the basics of computer networking, including terms and concepts, contemporary network services, transmission media, and protocols. Students learn how protocols are used in networking implementations from many vendors, especially those most common in today's LANs and WANs.

4100. Computers in the Classroom. 3 hours. Computers in education; computer topics covered in introductory and secondary school courses. Motivation and objectives in computer education; some programming language. Instructional uses of the computer, topics in curriculum integration. Prerequisite(s): CECS 1100.

4210. Digital Multimedia in Education and Training. 3 hours. Production of multimedia materials using digital video and audio production techniques. Project management teams, instructional design, editing techniques, digitizing, using a video camera, and production/post-production techniques are covered. Prerequisite(s): CECS 3220.

4550. Network Systems Administration. 3 hours. Study of file and print network services in a directory services environment. Topics include server configuration, user management, resource allocation, risk management, and disaster recovery. Prerequisite(s): CECS 3530.

4560. Internet Services Administration. 3 hours. Design and implementation of Internet information services including FTP, NNTP, World Wide Web and streaming media. Conferencing using H.323 and T.120 standards-based systems. Students both design and build various information services using representative software tools and hardware platforms.

4800. Studies in Education. 1-3 hours each. Organized classes for program needs. Prerequisite(s): consent of department. Limited-offering basis. May be repeated for credit.

4830. Practicum, Field Problem or Internship. 3 hours. (1;0;6) Supervised professional activities in computer education. May be repeated for credit.

4900-4910. Special Problems. 1-3 hours each. Prerequisite(s): consent of department. May be repeated for credit.

Educational Research – see Graduate Catalog**Special Education, EDSP**

The following special education courses are included in the generic special education service delivery endorsement for the elementary and secondary teaching certificates (EDSP 3210, 3420, 3500, 4110, 4320, 4330 and 4340).

2500. Human Exceptionality. 3 hours. An examination of intellectual, physical and social-behavioral exceptionalities across the life span. Students explore educational, cultural, economic, and political perspectives of exceptionalities. Attention is also given to viewing exceptionalities from various disciplines. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.*

3210. Educational Aspects of Exceptional Learners. 3 hours. Overview of the unique physical, cognitive and behavioral needs of exceptional learners. The teacher's role in identification and referral procedures and implementation of effective educational practices as required by federal and state law are examined.

3220. Learning Disabilities: Characteristics, Identification and Intervention. 3 hours. An examination is made of the typical characteristics associated with learning disabilities and identification procedures utilized. Emphasis is on the development of appropriate intervention programs. Prerequisite(s): EDSP 3210 and 3300 or consent of department.

3240. Family Communication and Collaboration for Exceptional Learners. 3 hours. (2;1). Analysis of collaboration and communication models and strategies used in working with families, caregivers and professionals concerned about students with exceptionalities. Focus on the changing definition of family, community resources, advocacy groups, political forces, legal mandates and other factors are addressed that may impact students and their families. 15 hours per term/semester of field-work is arranged.

3300. Special Education Practicum I. 3 hours. (1;6) Practical experience in field sites (90 hours: 70 hours field experience and 20 hours classroom). Cognitive, affective and psychomotor objectives for observing behaviors, assisting in planning for instruction and participating in diagnostic processes. Professional development is emphasized. Prerequisite(s): 60 hours of undergraduate credit, overall GPA 2.75, all sections of THEA must be passed.

3410. Mental Retardation: Characteristics, Identification and Intervention. 3 hours. An examination is made of the typical characteristics associated with mental retardation and identification procedures utilized. Emphasis is on the development of appropriate intervention programs. Prerequisite(s): EDSP 3210 and 3300 or consent of department.

3420. Behavioral Disorders: Characteristics, Identification and Intervention. 3 hours. An examination is made of the typical characteristics associated with severe behavior problems and procedures for identification. Emphasis is on the development of appropriate intervention programs. Prerequisite(s): EDSP 3210 and 3300 or consent of department.

4110. Student Teaching in Special Education. 3 hours. Teaching under supervision. See "Student Teaching Program" under College of Education section in the *Undergraduate Catalog* for details. Prerequisite(s): EDSP 3210, 3220, 3300, 3410, 3420, 3500, 4330 and 4340; or consent of department. Pass/no pass only.

4320. Educational Assessment and Evaluation of Exceptional Learners. 3 hours. Examines a variety of assessment and evaluation strategies that are appropriate for special and general education settings. Knowledge of basic testing procedures and terminology as related to the exceptional learner. Interpretation and utilization of test data in developing individual education plans. Introduction to curriculum-based assessment. Field experiences include administration of academic and teacher-made assessments. Prerequisite(s): EDSP 3210 or equivalent and EDSP 3420.

4330. Advanced Educational Strategies for Exceptional Learners. 3 hours. Advanced educational strategies and interventions that promote academic performance of exceptional learners across a variety of settings and situations. Includes an emphasis on instructional use of computers and technology in the classroom. Prerequisite(s): EDSP 3210 or equivalent and EDSP 3240.

4340. Classroom and Behavioral Management Strategies for Exceptional Learners. 3 hours. Approaches to behavioral management of exceptional learners across a variety of educational settings. Implementation of individualized techniques including applied behavioral analysis, as well as larger-group strategies, to foster positive behavioral, social and emotional growth. Special attention to the development of behavioral intervention plans and positive behavioral supports for students with challenging behaviors. Prerequisite(s): EDSP 3210 or equivalent and EDSP 3240.

4350. Strategies to Support Diverse Learners in General Education. 3 hours. Examination of the roles of various professionals in the successful inclusion of students with disabilities in the general education classroom. Focus on consultation models, practices and principles with an emphasis on collaboration, cooperative learning and inclusion. Provides an overview of assessment techniques applicable for all learners in the general education classroom. Prerequisite(s): EDSP 3210, or equivalent.

4900-4910. Special Problems. 1-3 hours each.

Theatre Arts

see Dance and Theatre

Theory, Music

see Music

University Courses

University Courses, UCRS

2100. Career Development. 1 hour. Course assists undecided majors and others who wish to clarify their career goals in exploring their interests, abilities and values, and in relating these to academic, personal and career choices. Pass/no pass only.

2900. Special Problems. 1-3 hours.

3150. Introduction to Research and Other Scholarly Activities. 2 hours. Basics of research and scholarship, to include critical thinking, elements of research, design, ethics, technical writing, computer technology, publication, application and professional presentation. Prerequisite(s): junior standing and admission to Ronald E. McNair Program. May be repeated for credit. Offered summer term only.

4200. Seminar in International Studies. 3 hours. (0;0;3) Seminar for advanced undergraduate students in any major; integration of elements of general education with students' major by examining the international dimensions of major field and how they relate to the entire undergraduate experience. Prerequisite(s): senior and/or consent of department.

4800. NT DC Internship. 1-6 hours. Practical experience in the American political process, learning how various Washington, D.C. entities formulate public policy and how other governmental agencies interact with the process. Provides students with insights into public life and the policy-making process by working in governmental, non-profit and private sector internship placements in our nation's capital. Prerequisite(s): open to students accepted to the NT DC Cooperative Governmental Internship Program; application information available from the Student Development office.

4900. Special Problems. 1-21 hours.

Women's Studies

Women's Studies, WMST

2100. Women and Society: An Introduction to Women's Studies. 3 hours. Introduction to the multidisciplinary field of women's studies. Examination of diverse experiences of women and the significance of gender in U.S. society and culture, with a focus on factors such as race, class, age and sexual orientation. Topics include sex-role socialization, sexuality, violence against women, reproductive health, images of women in the media, women's religious authority, and the contemporary feminist movement. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.*

2420. Race, Class, Gender and Ethnicity. 3 hours. Social, cultural and economic perspectives on Native, African, Asian and Mexican Americans. Emphasizes work and family patterns for both women and men, racism and sexism and contemporary movements for equality. *Satisfies the Cross-cultural, Diversity and Global Studies requirement of the University Core Curriculum.* (Same as SOCI 2010.)