

EDRD 4304–6346

needs. Clinical experiences required. Fall, spring. Formerly EDRD 403.

EDRD 4304 Reading Skills in the Content Field. (3 3 0)

Prerequisite: EDPD 3340, EPSY 3341 and admission to and retention in WTAMU Teacher Education Program, pass TASP. To help the content teacher gain a more complete understanding of reading instruction. Relation of reading ability to academic achievement, procedures for teaching reading skills needed in content area reading and reading difficulties encountered by elementary student. Fall, spring, summer. Formerly EDRD 404.

EDRD 4306 Teaching Reading in Middle School. (3 3 0)

Prerequisite: 3301, 3302. Designed to develop and maintain literacy skills in middle school grades. Emphasis on a solid understanding of reading, writing and study strategies needed by all middle school learners. Fall, spring. Formerly EDRD 406.

EDRD 4382 Reading. (3 3 0)

Investigation of the reading component of the elementary curriculum. All-level students must have EDPD 340, EPSY 341, passed TASP and admission to teacher education. Formerly EDRD 482.

EDRD 4386 Secondary Reading in the Content Area. (3 3 0)

Prerequisite: EDPD 3340, EPSY 3341 and admission to and retention in WTAMU Teacher Education Program, pass TASP. Development of reading skills and abilities in the middle school and secondary content area classroom. Emphasis on cognitive processes, questioning strategies, study skills and comprehension of expository text. Demonstrate knowledge of the Texas Essential Knowledge and Skills and relate recent research to instruction implications in the classroom. Fall, spring, summer. Formerly EDRD 486.

EDRD 5306 Teaching Reading in Middle School. (3 3 0)

Prerequisite: 3301, 3302. Designed to develop and maintain literacy skills in middle school grades. Emphasis on a solid understanding of reading, writing and study strategies needed by all middle school learners. Fall, spring. Formerly EDRD 5406.

EDRD 5381 Reading Recovery I. (3 3 0)

Prerequisite: admittance to the Reading Recovery Program. Introduction of the reading recovery teacher-in-training to reading recovery: theoretical foundations, purposes and procedures. Classroom instruction is coordinated with individual instruction of at-risk students in an integrated field experience. Fall, spring. Formerly EDRD 5581.

EDRD 5382 Reading. (3 3 0)

Investigation of the reading component of elementary curriculum. All-level students must have EDPD 340, EPSY 341 and passed TASP. Formerly EDRD 5482.

EDRD 5386 Secondary Reading in the Content Area. (3 3 0)

Prerequisite: EDPD 3340, EPSY 3341 and admission to and retention in WTAMU Teacher Education Program, pass TASP. Reading skills and abilities in the middle school and secondary content-area classroom. Emphasis on cognitive processes, questioning strategies, study skills and comprehension of expository text. Demonstrate knowledge of the Texas Essential Knowledge and Skills and relate recent research to instruction implications in the classroom. Fall, spring, summer I. Formerly EDRD 5386.

EDRD 6095 Problems in Reading Education. (1-3 0 0)

Actual problems related to reading education. To be taken only after prearrangement with a faculty member and approval of division head. May be repeated once when topics vary. Fall, spring, summer. Formerly EDRD 5588.

EDRD 6331 Reading Skills Instruction: Research, Principles and Practices. (3 3 0)

Prerequisite: admission into an education post-baccalaureate program. Principles and practices of teaching reading in the elementary classroom. Emphasis on emergent literacy, decoding strategies, vocabulary development, comprehension, assessment of reading difficulties and study skills. Summer. Formerly EDRD 5531.

EDRD 6332 Reading in Content Areas. (3 3 0)

Investigation of current content area reading programs with emphasis on characteristics of effective content area teaching: establishing a strong structure of understanding expository text; acquisition of vocabulary, comprehension and study strategies as they relate to content area learning and teaching, including the role of technology as a learning and teaching tool. Summer. Formerly EDRD 5532.

EDRD 6340 Foundations in Reading. (3 3 0)

Theoretical models of the reading process, historical perspectives on reading instruction and language learning. Provides an understanding of the construction of reading theory and its relationship to instructional practices. Survey of research and theory in behaviorism, constructivism, psycholinguistics, and sociolinguistics as influences on current reading practices; integration of instructional technology. Fall. Formerly EDRD 5540.

EDRD 6341 Diagnosis and Remediation. (3 3 0)

Prerequisite: six hours of graduate or undergraduate reading courses. Advanced study of informal and formal assessments, including state-mandated instruments, with emphasis on administration, interpretation and evaluation of results obtained. Procedures for diagnosis and methods and materials for corrective techniques. Includes clinical practice. Summer II. Formerly EDRD 5541.

EDRD 6343 Practicum in Corrective Reading. (3 0 0)

Prerequisite: EDSE 6095, EDRD 6340, 6341 (should be taken the semester prior to enrolling in 6343), 6344, 6345. Evaluation, prescription and remedial teaching techniques demonstrated by students. Each student will work with a reading-disabled student under supervision of the instructor. Formerly EDRD 5543.

EDRD 6344 Multicultural Child and Adolescent Literature. (3 3 0)

Exploration of various genres of literature written for elementary and secondary students. Equity issues of gender, age, race, ethnicity, exceptionality and language diversity will be explored in child and adolescent literature. Attention to award-winning literature, social change and curriculum revision, research and instructional strategies designed to enrich all content areas. Emphasis on literature-based reading programs, and empowerment of authors and illustrators of diverse language and cultural backgrounds. Fall. Formerly EDRD 5544.

EDRD 6345 Emergent Literacy in Family and Cultural Context. (3 3 0)

Emergent literacy in context of family, language community and culture. Family literacy issues and values influencing early oral language, reading, drawing-writing development. Environmental print awareness, home-school connection and developmentally appropriate practice. Survey of qualitative research in psycholinguistics, sociolinguistics and early childhood education. Integration of instructional technology. Spring. Formerly EDRD 5545.

EDRD 6346 Language and Literacy in the Classroom. (3 3 0)

Implementation of reading and writing processes in the elementary and secondary classroom. Emphasis on a language-centered view of teaching and learning, and models of effective instructional approaches. Focuses on

current interdisciplinary influences, qualitative and naturalistic research, portfolio development, integration of instructional technology and authentic assessment. Includes clinical experience. Summer I. Formerly EDRD 5546.

- EDRD 6348 Organization and Administration of Reading Programs. (3 3 0)** Survey of current research, trends and issues, federal and state initiatives, legislation and resources related to development, supervision and administration of reading programs, pre-K through adult learners. Includes clinical experience. Spring. Formerly EDRD 5548.

EDSE—Secondary Education

(Offered through the Division of Education.)

- EDSE 4095 Problems in Secondary Education. (1-3 0 0)** Study and/or research on an identified topic in secondary education. Requires approval of division head. May be repeated once when topics vary. Fall, spring, summer I, summer II. Formerly EDSE 492.
- EDSE 4320 Teaching in Secondary School. (3 3 0)** Prerequisite: EDPD 3340, EPSY 3341, EDT 3343, admission to and retention in teacher education. Intensive study of general methods of teaching which focuses on secondary curriculum, instructional planning and instructional skills. To be taken the semester prior to student teaching. Field experiences required. Fall, spring. Formerly EDSE 420.
- EDSE 4328 Teaching of School Music. (3 3 0)** Prerequisite: EDPD 3340, EPSY 3341, admission to and retention in teacher education. Intensive study of teaching vocal and instrumental music in secondary school. To be taken semester of student teaching. Usually offered only during fall semesters. Field experiences required. Fall. Formerly EDSE 428.
- EDSE 4340 Student Teaching—Secondary. (3 0 0)** Prerequisite: professional education courses required prior to student teaching semester, admission and retention in teacher education, required grade point averages, secondary—lack no more than one course in each teaching field, all-level—lack no more than two courses in teaching field, lack no more than 15 semester hours for completion of degree/deficiency plan program (excluding student teacher courses). Students are required to enroll in a minimum of two student teaching courses for a minimum required credit of six semester hours. Students will successfully complete six weeks of student teaching in their teaching field at the secondary level. Successful completion will be noted on the student's transcript by a grade of "S" indicating three semester hours credit with no grade points. Fall, spring. Formerly EDSE 440.
- EDSE 4341 Student Teaching—Secondary. (3 0 0)** Prerequisite: professional education courses required prior to student teaching semester, admission and retention in teacher education, required grade point averages, secondary—lack no more than one course in each teaching field, all-level—lack no more than two courses in teaching field, lack no more than 15 semester hours for completion of degree/deficiency plan program (excluding student teacher courses). Students are required to enroll in a minimum of two student teaching courses for a minimum required credit of six semester hours. Students will successfully complete six weeks of student teaching in their teaching field at the secondary level. Successful completion will be noted on the student's transcript by a grade of "S" indicating three semester hours credit with no grade points. Fall, spring. Formerly EDSE 441.

- EDSE 4344 Student Teaching—English as a Second Language/Bilingual. (3 0 0)** Prerequisite: professional education courses required prior to student teaching semester, admission and retention in teacher education, required grade point averages, minimum of nine semester hours of English as a Second Language courses, enrollment in EDSE 4340. Students completing secondary certification with English as a Second Language subject concentration are required to enroll in 4340 and 4344 for a minimum required credit of six semester hours. Students will successfully complete six weeks of student teaching in English as a Second Language at the secondary level. Successful completion will be noted on the student's transcript by a grade of "S" indicating three semester hours credit with no grade points. Fall, spring. Formerly EDSE 444.

- EDSE 4345 Internship—Secondary. (3 0 0)** Prerequisite: qualify for post-baccalaureate/STEP, admission to teacher education, completion of all other required courses, employment in school district as required. Students are required to enroll in a minimum of two internships for a minimum required credit of six semester hours. Student will successfully complete one-half of required teaching assignment in a designated accredited school at the secondary level. Successful completion will be noted on the student's transcript by a grade of "S" indicating three semester hours credit with no grade points. Fall, spring. Formerly EDSE 445.

- EDSE 4346 Internship—Secondary. (3 0 0)** Prerequisite: qualify for post-baccalaureate/STEP, admission to teacher education, completion of all other required courses, employment in school district as required. Students are required to enroll in a minimum of two internships for a minimum required credit of six semester hours. Student will successfully complete one-half of required teaching assignment in a designated accredited school at the secondary level. Successful completion will be noted on the student's transcript by a grade of "S" indicating three semester hours credit with no grade points. Fall, spring. Formerly EDSE 446.

- EDSE 6095 Problems in Education. (1-3 1-3 0-6)** Prerequisite: approval of department head. May be repeated once when topics vary. Fall, spring, summer I, summer II. Formerly EDSE 5586.

- EDSE 6333 Curriculum Planning and Delivery in Secondary Schools. (3 3 0)** Prerequisite: Admission into an education post-baccalaureate program. Intensive study of general methods of teaching which focuses on secondary curriculum, instructional planning and instructional skills. Summer I. Formerly EDSE 5533.

EDSP—Generic Special Education

(Offered through the Division of Education.)

- EDSP 4095 Problems in Special Education. (1-3 0 0)** Actual problems relating to special education. To be taken only after prearrangement with a faculty member and approval of division head. May be repeated once when topics vary. Fall, spring, summer I, summer II. Formerly EDSP 491.
- EDSP 4343 Student Teaching—Generic Special.** Prerequisite: professional education courses required prior to student teaching semester; admission and retention in teacher education; required grade point averages; elementary—lack no more than two courses in interdisciplinary course work

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and one course in generic special education course work; secondary—lack no more than one course in generic special education course work; lack no more than 15 semester hours for completion of degree/deficiency plan program (excluding student teacher courses). Students completing secondary certification enroll in EDSE 4340 and EDSP 4343. Students completing elementary certification with generic special education subject concentration are required to enroll in EDEL 4340 and EDSP 4343 for a minimum required credit of six semester hours. Students will successfully complete six weeks of student teaching at the elementary generic special-education level. Successful completion will be noted on the student's transcript by a grade of "S" indicating three semester hours credit with no grade points. Fall, spring. Formerly EDSP 443.

- EDSP 4351 Exceptionality in Children. (3 3 0)** Psychological effects of disabilities on children and youth: emotional disturbances, learning disabilities, intellectual disabilities, visual impairments, hearing or other health impairments, speech and language impairments, and giftedness. Field-based course. Fall, spring. Formerly EDSP 451.
- EDSP 4352 Teaching Individuals with Intellectual Disabilities. (3 3 0)** Educational delivery options, classroom organization, behavior management, curriculum and instructional aids and materials useful in education of the learner with intellectual disabilities. Field-based course. Fall. Formerly EDSP 452.
- EDSP 4354 Learning and Behavior Disorders. (3 3 0)** Introduction to learning disabilities and emotional disturbances. Field-based course. Fall. Formerly EDSP 454.
- EDSP 4355 Individual Assessment Techniques. (3 3 0)** Prerequisite: EDSP 4351 and 4354. Techniques and procedures for testing exceptional learners, interpretation assessment procedures and the application for writing individual educational programs. Field-based course. Summer I. Formerly EDSP 455.
- EDSP 4356 Curriculum Adaptation and Prescriptions. (3 3 0)** Techniques for adapting curriculum and instructional materials, task analysis, remedial strategies, educational prescriptions, and individual educational programs for the student with learning and behavioral disorders. Field-based course. Spring. Formerly EDSP 456.
- EDSP 4357 Educational Procedures for Adolescents. (3 3 0)** Designed to develop understanding and competence in educational procedures and programs for students with learning impairments in the secondary school. Emphasis on remedial and compensatory strategies, career education and adaptation of instructional materials. Field-based course. Spring. Formerly EDSP 457.
- EDSP 4358 Theories of Multiple Disabilities. (3 3 0)** Adaption of instruction and physical environment for those whose language, motor, sensory or medical impairments necessitate specialized intervention to meet educational, physical and psychological needs. Field-based course. Fall. Formerly EDSP 458.
- EDSP 4359 Behavior Management of Exceptional Children. (3 3 0)** Prerequisite: EDSP 4351, 4352 and 4354. Applied behavior analysis, behavior therapy and management techniques with emphasis on environmental manipulation and management of surface behaviors. Field-based course. Spring. Formerly EDSP 459.
- EDSP 4368 Special Ed Methods—Mild Disabilities. (3 3 0)** Prerequisite: EDPD 3340, EPSY 3341, EDT 3343, and admission into Teacher Education Program. Field-based

course designed for special education majors to master new instructional strategies, new technologies, collaboration techniques and communication skills for use with students with severe/multiple disabilities in appropriate environments. Formerly EDSP 468.

- EDSP 4369 Special Ed Methods—Severe Disabilities. (3 3 0)** Prerequisite: EDPD 3340, EPSY 3341, EDT 3343, and admission into Teacher Education Program. Field-based course designed for special education majors to master new instructional strategies, new technologies, collaboration techniques and communication skills for use with students with mild disabilities in appropriate environments. Formerly EDSP 469.
- EDSP 6095 Problems in Special Education. (1-3 0 0)** Actual problems related to special education. To be taken only after prearrangement with a faculty member and approval of division head. May be repeated once when topics vary. Fall, spring, summer I, summer II. Formerly EDSP 5588.
- EDSP 6352 Instructional Programming for Students with Intellectual Disabilities. (3 3 0)** Students will be required to perform a functional assessment for students with intellectual disabilities. Service delivery options, classroom management, adaptive equipment and differentiated curriculum related to individuals with moderate intellectual disabilities in traditional and inclusive settings. Spring. Formerly EDSP 5552.
- EDSP 6354 Theories of Learning Disabilities and Emotional/Behavioral Disorders. (3 3 0)** Advanced study of characteristics, etiology, and research related to cognitive, language, motor and social/emotional aspects of emotional behavioral disorders and learning disabilities. Fall. Formerly EDSP 5554.
- EDSP 6356 Advanced Remediation Techniques. (3 0 0)** Specific remediation techniques for language- and/or learning-disabled children. Spring. Formerly EDSP 5556.
- EDSP 6357 Teaching Secondary Students with Mild Disabilities. (3 3 0)** Understanding and competence in teaching secondary students with learning disabilities. Summer I. Formerly EDSP 5557.
- EDSP 6358 Seminar in Students with Multiple Impairments. (3 0 0)** Advanced study of adaptations required in the instructional and physical environment for students whose language, motor, sensory or medical impairments require specialized intervention to meet educational needs. Spring, summer I. Formerly EDSP 5558.
- EDSP 6359 Management of Classroom Behaviors—Exceptional Learners. (3 3 0)** Strategies for managing student behaviors. Concepts related to use of behavior-change strategies and single-subject designs. A behavior-change project will be designed and implemented. Fall. Formerly EDSP 5559.
- EDSP 6360 Assistive Technology. (3 3 0)** Advanced study of high-tech and low-tech assistive devices used by students with physical, sensory and/or mental disabilities. Keyboard alternatives and emulators, construction of keyboard and communication overlays, switch construction, toy adaptation, environmental controls, and other communication devices. Instructional planning for using devices across multiple settings will be learned. Fall. Formerly EDSP 5560.
- EDSP 6361 Survey of Exceptional Learners. (3 3 0)** Prerequisite: admission to PACE Program. Survey of areas of exceptionality in children and adolescents including learning disabilities, emotional and behavioral disorders,

cognitive impairments, and physical and health impairments. Summer. Formerly EDSP 5561.

EDSP 6362 Transition: From Schools to Adult Communities.

(3 3 0) Advanced study in providing appropriate transitional services to individuals with disabilities. Students will learn to assess needs, prepare transition plans, identify services, access services and evaluate outcomes. Postschool activities including postsecondary education, employment, independent living and community participation for people with disabilities will be studied. Fall. Formerly EDSP 5562.

EDSP 6363 Programming for Students with Cognitive

Disabilities. (3 3 0) Prerequisite: admission to PACE Program. Advanced study of instructional programming for students with cognitive disabilities and/or multiple impairments. Service delivery options, assistive technology and individualized curriculum related to programming from early childhood through transition into adulthood in traditional and inclusive settings. Summer. Formerly EDSP 5563.

EDSP 6364 Legal Issues in Special Education. (3 3 0)

Special education in a legal context, including regulation through federal and state legislation, judicial decision and administrative process. Authority and legal responsibility of the special educator and the administration of the school district. Spring. Formerly EDSP 5564.

EDSP 6365 Understanding Students with Learning

Disabilities/Emotional Disturbances. (3 3 0) Prerequisite: admission to PACE Program. Advanced study of characteristics, etiology and research related to cognitive, language, motor and social/emotional aspects of emotional disorders and learning disabilities. Summer. Formerly EDSP 5565.

EDSP 6367 Advanced Curriculum Adaptation Techniques for

Exceptional Learners. (3 3 0) Prerequisite: admission to PACE Program. Curriculum adaptation and remedial techniques for special-needs students. Summer. Formerly EDSP 5567.

EDSP 6376 Interpretation of Assessment Data for Instruction.

(3 3 0) Prerequisite: EPSY 6322, 6374. Competence in interpretation of assessment results from cognitive and achievement batteries and planning educational programs. Once per year. Formerly EDSP 5576.

EDSP 6377 Practicum in Diagnosis of Exceptional Students.

(3 0 0) Prerequisite: EDPD 6301, EPSY 6322 and 6374. Supervised experience in administration, scoring and interpretation of individually administered educational diagnostic and intelligence tests. Spring. Formerly EDSP 5577.

EDSP 6389 Teaching Gifted and Talented. (3 3 0)

In-depth study of pedagogical requirements to teaching children who are gifted, talented and creative. Formerly EDSP 5589.

EDT—Instructional Technology

(Offered through the Division of Education.)

EDT 3343 Educational Technology. (3 3 0) Prerequisite: demonstrated computer competency or equivalent and minimum of 60 semester hours. Appropriate usage, selection, components and operations of media. Students utilize traditional as well as computer-interactive formats in designing workplace guides and training tutorials. Fall, spring, winter intersession. Formerly EDT 343.

EDT 6305 Survey of Technologies for Online Instruction. (3 3 0) Survey of technologies used in development and delivery of online instruction. Appropriate usage, selection and operations of online delivery media. Students utilize computer-mediated, interactive tools in design, development, and delivery of online guides and training tutorials. Fall, spring. Formerly EDT 5505.

EDT 6310 Foundations of Instructional Technology. (3 3 0)

Overview providing background theory, research, and current and future practice in the field. Fall, summer I. Formerly EDT 5510.

EDT 6320 Digital Publishing Systems and Applications. (3 3 0)

Prerequisite: demonstrated computer competency. Thorough examination of theory and software applications used in digital publishing. Includes conversion of these to Portable Document Format for publishign on the Web. State-of-the-art design paradigms and academic/business software applications will be used. Formerly EDT 5521.

EDT 6330 Local and Wide Area Networks in Instructional

Settings. (3 3 0) Planning, design, implementation and managing local and wide area networks in instructional settings. Summer. Formerly EDT 5530.

EDT 6340 Planning for Technology. (3 3 0)

In-depth study of critical components of an educational technology plan. Development of educational specifications, design, selection, contracts, maintenance, staff development and training, and evaluation; organization and administration of learning resources. Spring. Formerly EDT 5540.

EDT 6350 Digital Graphics and Design. (3 3 0) Overview of design theory terms and concepts of digital imaging and media compatibility. Emphasis on understanding cross-platform standards, copyright, ethical and legal use across an enterprise intranet or the World Wide Web. Formerly EDT 5550.

EDT 6355 Video Technologies and Application. (3 3 0)

Prerequisite: demonstrated computer competency. Theoretical frameworks of multimedia design emphasizing storyboarding/scripting techniques for video file creation. State-of-the-art concepts, software/hardware, multimedia and high-resolution devices will be discussed as well as copyright, ethical, legal and access issues. Formerly EDT 5555.

EDT 6360 Principles and Practices of Distance Learning.

(3 3 0) Principles and theories of distance learning, including design, delivery and evaluation. Participants will develop, present and evaluate instruction via distance-learning technologies. Spring. Formerly EDT 5560.

EDT 6370 Integrating Computers into the Curriculum. (3 0 0)

Theories and practices of integrating microcomputer technology into curriculum. Principles and practices of curriculum development and delivery by computer will be

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discussed in a variety of instructional settings. Fall. Formerly EDT 5570.

- EDT 6371 Computer Technology and Language Instruction. (3 3 0)** Designed to expand graduate student's ability to integrate instructional technologies throughout language arts curriculum in an educationally sound manner. Hands-on, projects-based course includes creation of language experience stories, online and print-based storybooks, alternative language arts assessments, instructional games and more.
- EDT 6380 Webmastering: Organization, Design and Resource Utilization. (3 3 0)** Prerequisite: 6350, 6355, 6320 or consent of instructor. Overviews Web server administration, site/page design, development tools, applications and configurations for cross-platform intranet/Internet hosts. Includes discussion of access and use issues, including acceptable use policies (AUPs). Fall. Formerly EDT 5520.
- EDT 6385 Instructional Technology and Design Projects. (3 3 0)** Prerequisite: permission of instructor. Graduate student opportunity to complete instructional technology and design project under guidance of instructional technology faculty. Considered capstone experience and should be completed during student's final semester within the Instructional Technology Program.
- EDT 6392 Special Topics. (3 3 0)** Prerequisite: 6310 or approval of division head. Topics of special graduate interest in the field of instructional technology. May be repeated once for credit when topics vary. Fall, spring. Formerly EDT 5599.
- EDT 6394 Individual Problems in Instructional Technology. (3 0 0)** Prerequisite: approval of division head. Directed individual study and research on a specific topic within the discipline of instructional technology. May be repeated once with approval of division head. Fall, spring, summer I, summer II. Formerly EDT 5591.

EMA—Emergency Management Administration

(Offered through the Department of History, Political Science and Criminal Justice.)

- EMA 3310 Risk Management. (3 3 0)** Prerequisite: consent of instructor or EMA program academic adviser. Evaluation of buildings, structures, and hazards as it relates to fire safety and protection. Organizations, current trends and possible solutions for problems. Relationships between fire losses, insurance, loss ratios and state regulations. Formerly EMA 310.
- EMA 4350 Emergency Management Directed Research. (3 3 0)** Prerequisite: consent of instructor or EMA program academic adviser. This capstone course brings learning experiences in the program together to address real-life issues and problems through a major research project. Students select from predefined topical issues, submit a plan for completing the project and present the final project to a directed study committee. Formerly EMA 450.

ENGL—English

(Offered through the Department of English and Modern Languages.)

- ENGL 0002 Basic English. (1,3 1,3 0)** Practice in reading and writing with emphasis on grammatical principles, sentence construction and paragraph development. Students who score below 18 on the English section of the ACT (or 440, SAT verbal) are assigned to this course which must be successfully completed before registering in ENGL 1301. May not be counted toward baccalaureate degree requirements. Fall, spring. Formerly ENG 099.
- ENGL 1075 Fundamentals of Library Research. (1-2 1-2 0)** Intellectual resources of the university library and fundamentals of the research process. Structure of information and its retrieval, critical evaluation and appropriate documentation. Formerly ENG 105.
- ENGL 1301 Composition and Reading. (3 3 0)** Fundamentals in power and control over language and critical thinking. Fall, spring, summer. Formerly ENG 101.
- ENGL 1302 Composition and Reading. (3 3 0)** Prerequisite: 1301. Expository writing skills, fundamentals of the academic research process, including library sources and documentation; research reports. Fall, spring, summer. Formerly ENG 102.
- ENGL 2074 Independent Study. (1-3 0 0)** Prerequisite: Nine hours of English credit. Individual study designed to meet needs and interests of the student. Formerly ENG 290.
- ENGL 2311 Introduction to Technical Communication. (3 3 0)** Prerequisite: 1301 and 1302. Rhetorical techniques associated with major genres of technical and professional communication, such as correspondence, resumes, abstracts, reports, manuals and proposals. Includes written, electronic and oral components. Fall. Formerly ENG 270.
- ENGL 2332 Masterpieces in Western World Literature. (3 3 0)** Prerequisite: 1302. Literature of the western world before 1700. Fall, spring, summer. Formerly ENG 201.
- ENGL 2333 Masterpieces in Western World Literature. (3 3 0)** Prerequisite: 102. Literature of the western world after 1700. Fall, spring, summer. Formerly ENG 202.
- ENGL 2371 Literature of the Non-Western World. (3 3 0)** Prerequisite: 101 and 102. Survey of literature written in traditional and developing cultures other than British and North American. Fall, spring, summer. Formerly ENG 203.
- NOTE: All English courses listed below require nine hours of English credit as prerequisite.**
- ENGL 3094 Independent Study. (3 0 0)** Individual study designed to meet needs and interests of the student. Formerly ENG 390.
- ENGL 3301 Creative Writing. (3 3 0)** Techniques for writing poetry, short fiction and creative essay. Fall. Formerly ENG 331.
- ENGL 3302 Advanced Creative Writing. (3 3 0)** Advanced techniques for writing fiction or poetry. Spring. Formerly ENG 341.
- ENGL 3303 Playwriting. (3 3 0)** A playwriting workshop that offers an introduction to the art of playwriting through the experience of writing drama. Formerly ENG 371.
- ENGL 3304 Advanced Technical Communication. (3 3 0)** Prerequisite: nine hours of English, demonstrated computer competency or equivalent. The Internet, style, visual design and other advanced issues applied through standard technical and professional genres. Spring. Formerly ENG 370.

- ENGL 3310 Vocabulary Building. (3 3 0)** Derivations and growth of language. Spring. Formerly ENG 332.
- ENGL 3311 Introduction to Language Structure. (3 3 0)** Using advances made in linguistics, explores how English makes meaning through use of semantics, syntax, morphology and phonology. Emphasis on literary language as it affects children ages 6 to 18. Fall, spring, summer. Formerly ENG 333.
- ENGL 3312 History of the English Language. (3 3 0)** Growth and development of the English language from Anglo-Saxon to modern English. Fall. Formerly ENG 359.
- ENGL 3321 English Romanticism. (3 3 0)** Survey of Romantic movement in England. Emphasis on Wordsworth, Coleridge, Shelley, Keats and Byron. Every second or third fall. Formerly ENG 301.
- ENGL 3323 Modern Poetry of England and America (3 3 0)** Chronological development of modern British and American poetry. Every second or third fall. Formerly ENG 351.
- ENGL 3331 Modern Short Story. (3 3 0)** Evolution of the modern form of the short story: Continental, English and American. Every second or third spring. Formerly ENG 363.
- ENGL 3332 Modern Novel. (3 3 0)** Significant literary developments in prose of England and the United States in the 20th century and immediately before. Every second or third fall. Formerly ENG 358.
- ENGL 3341 Modern Drama. (3 3 0)** Modern tendencies in drama of Europe and America since the time of Ibsen. Every second or third spring. Formerly ENG 312.
- ENGL 3342 Film and Literature. (3 3 0)** Introduction to and development of the art of analyzing films. Analysis of challenges and difficulties of turning literary works into film. Comparison of processes of analyzing novels and films. Every second or third fall. Formerly ENG 340.
- ENGL 3350 The Bible as Literature. (3 3 0)** Literary nature of the Bible and of its influence on Western writing. Every second or third fall. Formerly ENG 365.
- ENGL 3351 Survey of English Literature to 1800. (3 3 0)** Survey of English literature from its origin through the Age of Enlightenment. Majors authors include the Beowulf poet, Chaucer, Shakespeare and Milton. Fall of odd years. Formerly ENG 380.
- ENGL 3352 Survey of English Literature Since 1800. (3 3 0)** Survey of English literature of the 19th and 20th centuries. Emphasis on major literary movements of Realism and Romanticism. Spring of even years. Formerly ENG 381.
- ENGL 3360 Survey of American Literature to 1865. (3 3 0)** American literature from its beginnings through Whitman. Spring. Formerly ENG 360.
- ENGL 3361 Survey of American Literature after 1865. (3 3 0)** American literature from the advent of realism to the present. Fall. Formerly ENG 361.
- ENGL 3362 Literature of the Southwest. (3 3 0)** Introduction to works distinctively Southwestern in tone and subject with emphasis on 20th-century essays, short stories and novels. Every second or third spring. Formerly ENG 362.
- ENGL 3380 Introduction to Literary Criticism. (3 3 0)** Theories and traditions of literary criticism. Fall. Formerly ENG 310.
- ENGL 3381 Literature for Children. (3 3 0)** General survey of literature which is suitable for children, sources of children's literature, standards for selection and evaluation of children's books. Fall, spring. Formerly ENG 320.
- ENGL 3392 Special Topics in English. (3 3 0)** Topics in areas of special interest. May be repeated for credit when topics change. Formerly ENG 399.
- ENGL 4301 Advanced Composition. (3 3 0)** Traditional and recent theories of composition with emphasis on practical and pedagogical techniques of improving expository writing. Every second or third fall. Formerly ENG 450.
- ENGL 4310 Advanced Grammar. (3 3 0)** Review of traditional grammar; introduction to modern grammar. Spring. Formerly ENG 442.
- ENGL 4311 Language Acquisition. (3 3 0)** How users of English make meaning through language. Emphasizes phonology, morphology, semantics and syntax. Fall. Formerly ENG 470.
- ENGL 4322 English Poetry: 1840–1890. (3 3 0)** Intellectual background and major poets of the Victorian age. Every second or third fall. Formerly ENG 462.
- ENGL 4332 19th-Century Novel. (3 3 0)** Development of the English and American novel in the 19th century. Every second or third fall. Formerly ENG 411.
- ENGL 4350 Medieval Literature. (3 3 0)** Early English literature through the 15th century with emphasis on the age of Chaucer. Every second or third spring. Formerly ENG 431.
- ENGL 4351 Works of Geoffrey Chaucer. (3 3 0)** Prerequisite: nine hours ENGL. Works of Geoffrey Chaucer with emphasis on *The Canterbury Tales*.
- ENGL 4352 Shakespeare—Early Plays. (3 3 0)** Plays written before 1600. Most fall semesters. Formerly ENG 401.
- ENGL 4353 Shakespeare—Later Plays. (3 3 0)** Plays written after 1600. Most spring semesters. Formerly ENG 402.
- ENGL 4354 Modern/Contemporary British Literature. (0-3 0-3 0-0)** Prerequisite: Nine hours ENGL. Modern/contemporary British literature and culture.
- ENGL 4360 American Regionalism. (3 3 0)** Prerequisite: nine hours ENGL. American regionalism's theoretical background and application to literature. Focus determined by instructor.
- ENGL 4361 Multicultural American Literature. (3 3 0)** Prerequisite: nine hours ENGL. Focused, comparative study of multicultural U.S. literatures.
- ENGL 4382 English Methods. (3 3 0)** Prerequisite: senior standing. Classroom applications of the principles of teaching literature, composition and language in grades 6–12. Fall. Formerly ENG 472.
- ENGL 4392 Selected Studies in Literature. (3 3 0)** Concentrated study of selected genres, periods or authors. May be repeated once with permission of instructor/department head. Formerly ENG 493.
- ENGL 4393 Honors. (3 0 0)** Prerequisite: senior standing and approval of department head. Completion of a senior thesis or research project by a candidate for graduation with special honors in the department. Course must be taken in addition to the 130-hour minimum degree requirement. Formerly ENG 499.
- ENGL 5310 Advanced Grammar. (3 3 0)** Emphasis on recent developments in grammatical theory. Spring. Formerly ENG 5442.
- ENGL 5311 Language Acquisition. (3 3 0)** How users of English make meaning through language. Emphasizes phonology, morphology, semantics and syntax. Fall. Formerly ENG 5470.

ENGL 6094–ENVR 4302

- ENGL 5352 Shakespeare—Early Plays. (3 3 0)** Development of Shakespeare as a dramatist. Most fall semesters. Formerly ENG 5401.
- ENGL 5353 Shakespeare—Later Plays. (3 3 0)** Analysis of Shakespeare's mature dramatic works. Most Spring semesters. Formerly ENG 5402.
- ENGL 5380 Literary Criticism. (3 3 0)** Theories of criticism with much practice in application. Spring. Formerly ENG 5310.
- ENGL 5381 Literature for Children. (3 3 0)** Book selection, standards of evaluation, sources of children's literature. Designed primarily for elementary teachers and librarians. Fall, spring. Formerly ENG 5320.
- ENGL 5382 English Methods. (3 3 0)** Classroom applications of the principles of teaching literature, composition and language in grades 6–12. Fall. Formerly ENG 5472.
- ENGL 6094 Independent Study. (1-3 0-3 0)** Prerequisite: 24 semester hours of English. Intensive reading and research in language and literature. Must be approved by supervising professor before registration. May be repeated with approval of department head. Formerly ENG 5505.
- ENGL 6301 Thesis. (3 0 0)** Prerequisite: 24 semester hours of English. Formerly ENG 5501.
- ENGL 6302 Thesis. (3 0 0)** Prerequisite: 24 semester hours of English. Formerly ENG 5502.
- ENGL 6310 Studies in Language Structure and Development. (3 0-3 0)** Prerequisite: 24 semester hours of English. Selected studies in principles of language, historical linguistics, grammatical and semantic systems. Readings, research, lectures, conferences with staff. May be repeated twice. Formerly ENG 5507.
- ENGL 6330 Studies in Literary Genres. (3 0-3 0)** Prerequisite: 24 semester hours of English. Selected studies in literary genres. Readings, research, lectures, conferences with staff. May be repeated twice. Formerly ENG 5506.
- ENGL 6331 Hemingway and Faulkner. (3 3 0)** Prerequisite: 24 semester hours of English. Representative works covering the entire careers of two of the most influential forces in recent American fiction. Formerly ENG 5521.
- ENGL 6350 Studies in English Literature. (3 3 0)** Prerequisite: 24 semester hours of English. Selected topics for study and research. May be repeated when topics vary. Formerly ENG 5576.
- ENGL 6351 Elizabethan Literature. (3 3 0)** Prerequisite: 24 semester hours of English. Seminar in major Renaissance writers other than Shakespeare. Formerly ENG 5511.
- ENGL 6352 17th-Century Literature. (3 3 0)** Prerequisite: 24 semester hours of English. Seminar in 17th-century prose and poetry. Formerly ENG 5570.
- ENGL 6353 18th-Century Literature. (3 3 0)** Prerequisite: 24 semester hours of English. Seminar in selected writers of the 18th century. Formerly ENG 5574.
- ENGL 6354 Studies in English Romantic Literature. (3 3 0)** Prerequisite: 24 semester hours of English. Seminar in literature of the English Romantic Movement; lectures, papers, parallel reading. Formerly ENG 5575.
- ENGL 6360 Studies in American Literature. (3 3 0)** Prerequisite: 24 semester hours of English. Selected topics for study and research. May be repeated when subjects vary. Formerly ENG 5571.
- ENGL 6380 Teaching College Composition. (3 3 0)** Introduction and practice with professional resources that support

teaching of writing in higher education. Fall. Formerly ENG 5508.

- ENGL 6381 Literary Theory. (3 3 0)** Prerequisite: 24 semester hours of English. Review of traditional literary theory and close examination of modern literary theory. Formerly ENG 5522.
- ENGL 6392 Special Topics in English. (3 3 0)** Prerequisite: 24 semester hours of English. Topics in area of special graduate interest. May be repeated for credit when topics change. Formerly ENG 5599.

ENGR—Engineering

(Offered through the Department of Mathematics, Physical Sciences and Engineering.)

- ENGR 1301 Fundamentals of Engineering. (3 2 2)** Comprehensive study of fundamental engineering concepts, principles. Systematic approach to problem solving. Formerly ENGR 101.
- ENGR 1304 Engineering Graphics. (3 2 2)** Fundamentals of engineering graphics using computer aided drafting and design. Fall, spring. Formerly ENGR 125.
- ENGR 1375 Principles of DC and AC Circuits. (3 2 2)** Principles of DC and AC circuits. Test and measurement of electric circuits and components. Fall. Formerly ENGR 115.
- ENGR 2301 Engineering Statics. (3 3 0)** Prerequisite: 1301 and MATH 2413. Bodies in equilibrium, including Newtonian mechanics, gravitational forces, reference systems. Formerly ENGR 230.
- ENGR 2302 Engineering Dynamics. (3 3 0)** Prerequisite: 2301, MATH 2413 (or concurrent enrollment). Theory and principles of rigid body kinematics, including forces, acceleration, work and energy, and impulse and momentum, in rectilinear and curvilinear systems. Formerly ENGR 240.
- ENGR 2372 Special Topics in Engineering. (3 3 0)** Current topics or topics of special interest in engineering. May be repeated for a maximum of six hours if subject matter varies.
- ENGR 3302 Fundamentals of Engineering Econ. (3 3 0)** Prerequisite: MATH 1314 or 1316 or 1348 or 2413. Introduction to concepts of economic analysis applied to engineering problems. Topics include cost and design comparison, time value of money, comparison of alternatives, depreciation and tax implications, economic evaluation of projects, risk and uncertainty, replacement analysis and capital financing. Spring. Formerly ENG 302.

ENVR—Environmental Science

(Offered through the Department of Life, Earth and Environmental Sciences.)

- ENVR 3092 Special Topics. (1-6 0-6 0-12)** Prerequisite: consent of instructor. Consideration in recent advances in environmental sciences. Formerly ESC 399.
- ENVR 4095 Problems. (1-6 0-6 0-12)** Prerequisite: permission of department head. Independent studies in environmental science not covered by regular courses. Fall, spring, summer I, summer II. Formerly ESC 421.
- ENVR 4098 Internship in Environmental Science. (1-3 0 0)** Prerequisite: 60 hours of core courses. Two to six weeks internship at a plant, business or agency to observe and participate in daily operations, under supervision of

- cooperating personnel involved in environmental aspects of the place. Fall, spring, summer I, summer II. Formerly ESC 403.
- ENVR 4301 Preparation of Environmental Impact Statements. (3 3 0)** Prerequisite: 60 hours of core courses. Preparation, review, evaluation and interpretation of environmental impact statements and environmental documents. Fall of even years. Formerly ESC 401.
- ENVR 4302 Environmental Law. (3 3 0)** Prerequisite: adviser's approval. Fundamental study of legal aspects and responsibilities of businesses, industries and agencies. Spring. Formerly ESC 402.
- ENVR 4305 Introduction to Geographic Information Systems. (3 2 2)** The combination of mapping and databases to provide combinations of spatial information and modeling capabilities in a multi-disciplinary format. Introduction of basic concepts and data sources, including global positioning systems and basic output products. Spring. Formerly ESC 405.
- ENVR 4306 Hazardous Waste Site Assessment. (3 2 2)** This course provides the student with OSHA 1910.120 certification to work on hazardous waste sites as well as advanced skills in site assessment, sampling protocols and the selection and use of safety equipment. May intersession. Formerly ESC 406.
- ENVR 4310 Global Agriculture and the Environment. (3 3 0)** Prerequisite: PSES 3411 or BIOL 3418 or consent of instructor. Discussion of agriculture systems and practices in relation to how they affect environmental quality from local to global scales. Same as AGRI 4310. Fall. Formerly ESC 410.
- ENVR 4350 Computer Applications in Hydrogeology. (3 2 2)** Prerequisite: GEOL 3350. Solving hydrogeology problems using real data and utilizing commercially available software. Examples of problems include direction and velocity of groundwater flow, contaminant transport, and volume and depletion calculations of confined and unconfined aquifers. Formerly ESC 450.
- ENVR 4404 Environmental Sampling and Interpretation. (4 3 2)** Hands-on experience in sampling, data validation and interpretation of air, water, soil and biota parameters using current EPA and state protocols. Planning, chain-of-custody, quality assurance and sampling technique. Spring. Formerly ESC 404.
- ENVR 4430 Introduction to Dendrochronology. (4 3 2)** Dendrochronology or tree-ring science; principles and applications to archaeology, environmental studies, ecology and climatology. Same as BIOL 4430. Formerly ESC 430.
- ENVR 5310 Global Agriculture and the Environment. (3 3 0)** Prerequisite: PSES 3411 or BIOL 3418 or consent of instructor. Discussion of agriculture systems and practices in relation to how they affect environmental quality from local to global scales. Same as AGRI 5310. Fall. Formerly ESC 5410.
- ENVR 5350 Computer Applications in Hydrogeology. (3 2 2)** Prerequisite: GEOL 3350. Solving hydrogeology problems using real data and utilizing commercially available software. Problems solved include direction and velocity of groundwater flow, contaminant transport, and volume and depletion calculations of confined and unconfined aquifers. Formerly ESC 5450.
- ENVR 5430 Introduction to Dendrochronology. (4 3 2)** Dendrochronology or tree-ring science; principles and application to archaeology, environmental studies, ecology and climatology. Same as BIOL 5430.
- ENVR 6092 Special Topics. (1-6 0-6 0-12)** Recent advances in environmental sciences. Formerly ESC 5599.
- ENVR 6098 Graduate Internship in Environmental Science. (1-3 0 0)** Prerequisite: permission of department head. Two- to six-week internship at a plant, business or agency to observe and participate in daily operations under supervision of cooperating personnel involved in environmental aspects of the operation. A comprehensive report will be required. Fall, spring, summer I, summer II. Formerly ESC 5590.
- ENVR 6111 Seminar. (1 1 0)** Prerequisite: admission to the M.S. degree in environmental science. Current topics and concerns of environmental science. Fall of odd years. Formerly ESC 5511.
- ENVR 6301 Thesis. (3 0 0)** Fall, spring, summer I, summer II. Formerly ESC 5501.
- ENVR 6302 Thesis. (3 0 0)** Fall, spring, summer I, summer II. Formerly ESC 5502.
- ENVR 6303 Research Methods in Environmental Science. (3 3 0)** Prerequisite: BIOL 4416, 4310, MATH 2413 or equivalent. Sampling design and statistical methods for environmental scientists. Formerly ESC 5503.
- ENVR 6304 Ecological Risk Assessment. (3 3 0)** Overview of current and proposed science and policy of ecological risk assessment methodologies used to assess and predict ecological effects and to support the risk management decision-making process for protection and recovery of the environment at waste-spill sites and for permitted facilities. Fall of even years. Formerly ESC 5504.
- ENVR 6305 Geographic Information Systems. (3 2 2)** Prerequisite: demonstrated computer competency. Use of computers to generate maps and associated data bases. Analysis and applications of Geographic Information Systems. Same as ET 6305. Spring of even years. Spring. Formerly ESC 5505.
- ENVR 6320 Environmental Regulations. (3 3 0)** Prerequisite: approval of adviser. Legal application and responsibilities of environmental regulations as they apply to businesses, industries and agencies. Fall of odd years. Formerly ESC 5520.
- ENVR 6344 Agricultural Waste Management. (3 3 0)** Issues and solutions for managing agricultural wastes. Manure characteristics, treatment methods, environmental regulations, odors, air quality, composting and land applications. Spring of even years. Formerly ESC 5544.
- ENVR 6350 Applied Hydrogeology. (3 2 2)** Prerequisite: GEOL 3350. Quantitative techniques used in surface hydrology and underground aquifers. Spring of even years. Formerly ESC 5550.
- ENVR 6395 Research Problems in Environmental Science. (3 0 0)** Prerequisite: permission of instructor and department head. Selected individual research problems. Completion of a problem which is more extensive than problems encountered in normal course work. May be repeated once with approval of department head. Fall, spring, summer I, summer II. Formerly ESC 5581.
- ENVR 6509 Human Ecology. (5 3 4)** Prerequisite: BIOL 4510 or 4513. Critical evaluation of the impact of human activities on the environment. Same as BIOL 6509. Fall of odd years. Formerly ESC 5509.

EPSY 3350–6395**EPSY—Educational Psychology**

(Offered through the Division of Education.)

- EPSY 3341 Educational Psychology. (3 3 0)** Prerequisite: EDPD 3340, 54 semester hours completed, pass TASP, minimum GPA of 2.5, admission into WTAMU Teacher Education Program. Theories of stage development, age-level characteristics, understanding cultural diversity, human variability, behavioral and social learning theories, cognitive field learning theories, motivation, reinforcement theory, stages of moral development, learning styles and problem solving. Clinical experience hours required. Fall, spring, summer I, summer II. Formerly EPSY 341.
- EPSY 3350 Children with Special Needs. (3 3 0)** Overview of characteristics of children with special needs including children with disabilities, gifted/talented and/or from culturally diverse backgrounds. Modifications and adaptations of programs to meet individual needs. Fall, spring, summer II. Formerly EPSY 350.
- EPSY 4095 Problems in Education Psychology. (1-3 0 0)** Actual problems relating to education psychology. To be taken only after prearrangement with a faculty member and approval of division head. May be repeated once when topics vary. Fall, spring, summer I, summer II. Formerly EPSY 491.
- EPSY 6305 Theories of Counseling and Professional Orientation. (3 3 0)** Major theories of counseling, legal and ethical practices in professional counseling. Prerequisite to 6375 or 6328. Fall, spring, summer I. Formerly EPSY 5527.
- EPSY 6306 Principles and Practices of Counseling Services. (3 3 0)** Principles and practices of guidance and counseling services in schools with emphasis on delivery of services to students and consultation skills for working with staff. Spring. Formerly EPSY 5506.
- EPSY 6308 Professional Orientation and Ethics. (3 3 0)** Objectives of professional counseling organizations, codes of ethics, legal aspects of practice and development of professional identity. Spring, summer II. Formerly EPSY 5508.
- EPSY 6310 Educational Psychology. (3 3 0)** Psychological assessment of human behavior related to teaching and learning. Formerly EPSY 5510.
- EPSY 6322 Educational Diagnostic Testing. (3 2 0)** Competence in using tests as diagnostic instruments. Students must demonstrate ability to incorporate and synthesize data into a diagnostic report. Two hours of practicum required to administer tests; analyze and evaluate testing techniques. Spring. Formerly EPSY 5522.
- EPSY 6324 Counseling Techniques with Children, Youth and Parents. (3 0 0)** Techniques and procedures for working with children, youth and their parents. Consultation techniques included. Spring, summer I. Formerly EPSY 5524.
- EPSY 6326 Basic Play Therapy. (3 3 0)** Prerequisite: 6324. Designed to enhance/increase counselor's understanding of the child's world as perceived by the child, the relationship between the child's world and behavior. Major theories of play therapy and utilization of play media to facilitate the child's self-exploration, self-expression, self-understanding and personal growth. Formerly EPSY 5526.
- EPSY 6327 Vocational and Educational Information. (3 3 0)** Theories of vocational choice. Competence in selection, organization and evaluation of materials to be utilized in counseling students. Fall, summer I. Formerly EPSY 5576.
- EPSY 6328 Group Counseling. (3 3 0)** Prerequisite: EPSY 6305. Dynamics of counseling applied to the group setting. Experimental learning in a simulated group process. Strongly recommended that 6305 be completed prior to enrollment in this course. Fall, spring, summer II. Formerly EPSY 5528.
- EPSY 6330 Multicultural and Gender Issues in Counseling. (3 3 0)** Historical-political-social factors, gender-role socialization and how these forces influence psychological development of all people. Emphasis on how this knowledge and awareness can positively influence problem assessment/conceptualization, treatment and therapy outcomes with African-American, Asian, Latino, Native American, homosexual, transgendered and other clients. Fall. Formerly EPSY 5530.
- EPSY 6350 Exceptional Children in the Mainstream of Society. (3 3 0)** Prerequisite: TASP and admission into Teacher Education Program if pursuing initial certification. Overview of characteristics and special needs of exceptional children who are disabled, gifted/talented and/or from culturally diverse backgrounds. Focus on needs of exceptional children and possible characteristics, implications and ecological elements that may impact the child. Spring, summer II. Formerly EPSY 5550.
- EPSY 6367 Counseling and Guidance of Gifted and Talented Students. (3 3 0)** Counseling exceptional individuals with emphasis on needs of gifted and talented children and youth, and current research related to exceptional individuals and their families. Formerly EPSY 5567.
- EPSY 6371 Psychopharmacology and Substance Abuse Treatment. (3 3 0)** Impact of psychotropic medications on clients and how these therapies influence counseling interventions. Methods counselors should employ when intervening with clients who are recovering from drug/alcohol abuse and dependence. Fall. Formerly EPSY 5571.
- EPSY 6372 Assessment and Diagnosis in Professional Counseling. (3 2 2)** Prerequisite: EPSY 6305 and PSYC 5360 or 6360. Formal and non-formal assessment techniques including interviewing, testing, interpreting and communicating assessment information. Spring. Formerly EPSY 5572.
- EPSY 6373 Intervention Strategies in Marriage and Family Therapy. (3 3 0)** Prerequisite: 6305. Research on applied intervention techniques: couples and families facing premarital issues, infidelity, divorce, domestic violence, child abuse and other critical issues. Fall, summer I. Formerly EPSY 5573.
- EPSY 6374 Individual Mental Testing. (3 3 0)** Administration, scoring and interpretation of various Wechsler Intelligence Scales. Students are responsible for providing their own testing materials. Four hours of practicum required to administer tests; analyze and evaluate testing techniques. Fall. Formerly EPSY 5574.
- EPSY 6375 Techniques of Counseling. (3 3 0)** Prerequisite: 6305 and formal admission to counseling or graduate psychology program. Identification and implementation of techniques involved in the counseling process. Techniques of theoretical approaches, outcome research and ethical methods of implementation. Fall, spring. Formerly EPSY 5575.

EPSY 6381	Seminar in Counseling. (3 3 0) Prerequisite: approval of adviser. Intensive studies in areas pertinent to professional activities of counselors. May be repeated as topics vary. Formerly EPSY 5593.	ET 3350	Fundamentals of Flight. (3 3 0) Aircraft systems and instruments, meteorology, communications and navigation. Completion of this course prepares a person to take the FAA written exam for a private pilot license. Formerly ET 350.
EPSY 6382	Theory and Practice of Counselor Supervision. (3 2 2) Prerequisite: 6399. The role of supervision in counseling including theory of counselor development and field work in supervision. Fall. Formerly EPSY 5595.	ET 3360	Plant Design and Layout. (3 3 0) Prerequisite: ENGR 1304. Locating, designing and laying out manufacturing facilities.
EPSY 6395	Problems in Guidance and Counseling. (3 0 0) Prerequisite: approval of department head. Specific problems in guidance and counseling. Fall, spring. Formerly EPSY 5588.	ET 4301	Machining Fundamentals. (3 2 2) Prerequisite: 2371. Foundry and machining applications as they apply to the manufacturing of metal products. Formerly ET 401.
EPSY 6398	Internship in Counseling. (3 0 0) Prerequisite: 6327 and approval of instructor. Opportunity for students to perform, under supervision, a variety of activities that regularly employed counselors typically perform. After completing both sections, students should have received 600 hours of experience and training in individual counseling, group counseling and assessment. May be repeated once for credit. Fall, spring, summer I. Formerly EPSY 5580.	ET 4311	Industrial Design and Ergonomics. (3 3 0) Prerequisite: ENGR 1304. Applying design and ergonomic principles in the production and marketing of consumer products. Formerly ET 411.
EPSY 6399	Practicum in Counseling. (3 2 2) Prerequisite: approval of instructor, approval of the program coordinator, formal admission to program and a minimum of 27 semester hours in counseling/psychology including 6375. Course is a competency-based supervised experience in individual and group counseling through the counseling lab on campus. Off-campus experience is accepted for school counselors, and enrollment for the summer is limited to those in school counseling program. Fall, spring, summer I. Formerly EPSY 5579.	ET 4314	Industrial Quality Assurance. (3 3 0) Quality control management function involving detection and elimination of conditions that cause poor quality and analysis and refinements of systems. Formerly ET 414.
		ET 4325	Computer-Aided Drafting and Design. (3 2 2) Prerequisite: ENGR 1304 or consent of instructor. Use of industrial CADD programs as a tool in the design process; includes 3-D modeling. Formerly ET 425.
		ET 4330	Numerical Control and Computer-Aided Manufacturing. (3 2 2) Prerequisite: 3301. Includes basic concepts in computer-aided manufacturing with emphasis on a system approach to manufacturing activities; use of numerical control machine tools and other computer-based software as applied to different industries; robotics implementation. Formerly ET 430.
		ET 4340	Principles of Industrial Distribution. (3 3 0) Terminology, publications, products and methods of industrial distribution. Emphasis on specific marketing techniques of industrial products and required engineering principles. Formerly ET 440.
		ET 4370	Industrial Safety and Accident Prevention. (3 3 0) Fundamentals, accidents and their application to industrial supervision and management. Reasons for accidents, prevention of industrial accidents, qualifications and duties of safety consultants. Recognition and elimination of health hazards, machinery, guards, in-plant traffic, materials handling, emergency treatment and preparation of safety reports. Formerly ET 470.
		ET 4380	Design Implementation. (3 0 0) Prerequisite: senior standing. A special interest project will be selected and developed through the necessary design/research steps to completion. An oral presentation before a faculty committee will be required to finalize the course. Fall, spring, summer I. Formerly ET 480.
		ET 4395	Research and Problems. (3 0 0) Selected individual research or problem in engineering technology. Completion of a more extensive research or problem than encountered in normal class work. May be repeated once. Fall, spring, summer I, summer. Formerly ET 498.
		ET 4398	Industrial Internship. (3 0 0) Supervised industrial work experience related to student's educational objectives. Fall, spring, summer I, summer II. Formerly ET 490.
		ET 6095	Individual Problems. (1-6 0 0) Prerequisite: approval of department head. Completion of limited investigations not covered by any other course and/or research by student into topics of interest dealing with engineering technology. Fall, spring, summer I, summer II. Formerly ET 5585.
		ET 6301	Thesis. (3 0 0) Fall, spring, summer I, summer II. Formerly ET 5501.

ET—Engineering Technology

(Offered through the Department of Mathematics, Physical Sciences and Engineering.)

ET 2371	Materials and Fabrication/Metals and Ceramics. (3 2 2) Properties and fabrication of ferrous and non-ferrous metals and ceramics used in manufacturing. Fall. Formerly ET 201.
ET 2372	Materials and Fabrication/Plastics and Composites. (3 2 2) Properties and fabrication of plastics and composites used in manufacturing. Spring. Formerly ET 202.
ET 2375	Electronic Devices and Circuits. (3 2 2) Prerequisite: ENGR 1375. Theory, operation and characteristics of semiconductor devices and circuits, including diodes, bipolar transistors, field effect transistors and commonly used integrated circuits. Formerly ET 215.
ET 3301	Fundamentals of Manufacturing Technology. (3 3 0) Prerequisite: 2371. Overview of current technologies used in manufacturing automation systems and production planning and control; FMS, robotics, CNC, CAD/CAM/CIM, PCs, machine vision, lasers, JIT, bar coding, voice activation of computers. Content includes the impact of these technologies on first-line employee supervision with emphasis on personality development and interaction for increased productivity. Formerly ET 301.
ET 3315	Digital Electronics. (3 2 2) Prerequisite: 2375. Modern integrated circuit logic families. Implementation of digital circuits using integrated circuit devices. Formerly ET 315.
ET 3330	Fluid Power/Power Transmission. (3 2 2) Prerequisite: ENGR 1301. Fluid mechanics and mechanical transmission applications. Formerly ET 330.