College of Education

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THE COLLEGE OF EDUCATION prepares competent, committed, and reflective professionals to help build a better future for individuals, our state, our nation, and our world. Educator preparation majors as well as health- and rehabilitation-related majors are offered in the Department of Curriculum and Teaching; Department of Educational Foundations, Leadership, and Technology; School of Kinesiology; and Department of Special Education, Rehabilitation, and Counseling.

Admission to the College
Eligibility criteria and admission procedures for freshmen and transfer students are outlined elsewhere in this Bulletin. On-campus students may request a transfer into the College of Education by contacting the Office of Student Services, 3464 Haley Center. Although currently enrolled students may transfer into any of the college's undergraduate majors, students transferring into the elementary education pre-major need to be aware of GPA restrictions and other admission requirements for admission to the professional part of this program. Please discuss progression and completion requirements with an academic advisor.

College of Education students are charged a fee for professional liability insurance.

Teacher Education Majors
The college’s teacher education majors are designed to ensure that program graduates have the knowledge, skills, and dispositions to help all students learn. These programs maintain selective admission, retention, and graduation requirements and are in compliance with the Alabama State Board of Education’s rules for teacher education.

Accreditation and Approvals
Auburn University’s College of Education is accredited by the National Council for Accreditation of Teacher Education (NCATE). All programs preparing teachers and other professional school personnel are approved by the Alabama State Board of Education (ALSDE). In addition, the state of Alabama signs the National Association of State Directors of Education and Certification (NASDTEC) Interstate Agreement which facilitates the applications of AU’s graduates who have met all ALSDE certification requirements when they apply for certification in other states. If you plan to teach in a state other than Alabama, please contact that state’s certification agency to ensure compliance with any additional state requirements.

Field Experiences
Students in teacher education programs participate in sequential learning opportunities in public school and community settings throughout their programs.

The pre-teaching experience is a prerequisite for admission to teacher education. This five-day experience is intended to provide the opportunity for students to observe the school as a total organization and increase their awareness of the teaching profession. The primary focus is observation and reflection. Students should consult with their advisor as to the specific requirements for their program.

Additional field experiences are conducted concurrently with enrollment in professional education courses. These experiences occur prior to clinical residency/internship and provide students with multiple opportunities to work with diverse learners in schools and communities.

Clinical residency/internship is the culminating field-based experience and spans a full semester. This experience immerses interns in the learning community and provides them with intensive and extensive opportunities to develop and demonstrate competence in the professional roles for which they are preparing.

Admission to Teacher Education
The first transition point in teacher education programs is admission to teacher education. Criteria are noted below.
• Completion and submission of the Admission to Teacher Education Application
• Completion of 45 semester hours in the program
• Satisfactory completion or current enrollment in the orientation course
• For students admitted to teacher education July 1, 2017, and thereafter - Minimum 2.75 grade-point average on all college coursework attempted as well as all coursework attempted at Auburn, in professional studies, and in the teaching field
• Satisfactory performance in the pre-teaching experience
• A passing score on each of the Praxis Core Academic Skills for Educators (Reading, Writing, and Mathematics)
• Documentation of clear background check
• Satisfactory completion of a professional interview

Students who fail to meet these criteria upon initial application may submit new evidence in an effort to satisfy admission to teacher education requirements. Meeting the above criteria at a minimum level does not guarantee admission into teacher education. One teacher education program, elementary education, has a restricted enrollment. For additional information about admission to this program, see Major with Restricted Enrollment.

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Admission to Clinical Residency (Internship)

The second transition point in teacher education programs is admission to clinical residency (internship). Criteria are noted below.

• Completion and submission of the Clinical Residency (Internship) Application one year in advance
• Admission to Teacher Education
• Satisfactory completion of all courses on the program checklist designated as prerequisites for clinical residency
• For students admitted to teacher education prior to July 1, 2017 - Minimum 2.50 grade-point average on all college coursework attempted as well as all coursework attempted at Auburn, in professional studies, and in the teaching field; for students admitted to teacher education July 1, 2017, and thereafter - Minimum 2.75 grade-point average on all college coursework attempted as well as all coursework attempted at Auburn, in professional studies, and in the teaching field
• No grade below a C in professional studies courses
• Passing score(s) on the appropriate Praxis II assessment(s)
• Demonstrated potential for teaching with departmental approval

Students who fail to meet these criteria may submit new evidence in an effort to satisfy admission to clinical residency/internship requirements.

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Exit from Clinical Residency (Internship)

• Satisfactory completion of all key assessments including submission of edTPA portfolio for official scoring
• Satisfactory completion of teaching requirements (taught 20 full days, including 10 consecutive days)
• Satisfactory completion of attendance requirements (full-time, full semester)

Graduation

To be eligible for graduation, students must meet the following criteria.

• Registration for UNIV 4AA0 ED1 (graduation check)
• Completion of all courses on the program checklist (Note: Approvals of Course Substitution Request’s must be on file in the Office of Student Services, 3464 Haley.)
• For students admitted to teacher education prior to July 1, 2017 - Minimum 2.50 grade-point average on all college coursework attempted as well as all coursework attempted at Auburn, in professional studies, and in the teaching field; for students admitted to teacher education July 1, 2017, and thereafter - Minimum 2.75 grade-point average on all college coursework attempted as well as all coursework attempted at Auburn, in professional studies, and in the teaching field
• No grade below a C in professional studies courses
• Satisfactory grade in clinical residency/internship including completion of all requirements
Certification

The assistant dean for assessment has been designated as the teacher certification officer for Auburn University. Applying for certification with the Alabama State Department of Education is a separate process from applying for graduation. It is critical that teacher education students meet with their academic advisor in the Office of Student Services (Haley 3464) routinely to ensure they meet the most current ALSDE requirements for certification. To obtain certification in the state of Alabama, program graduates must submit a completed certification application with required processing fee to Office of Student Services in order to begin the process of certification with the ALSDE. Instructions for completing the certification packet are provided to the student during their clinical residency via AU email. Program graduates who delay obtaining Alabama certification may be subject to changes made in teacher certification requirements between the time of graduation and the time of the certification request. Students seeking certification in other states should contact those state certification offices to obtain their application forms and requirements.

The following table shows undergraduate teacher education programs by department and by grade levels of certification. Music Education (P-12) and secondary education programs in English language arts, foreign language, mathematics, science, and social science meet the university requirements for a second major in the teaching field.

<table>
<thead>
<tr>
<th>Department and Program</th>
<th>Grade Levels</th>
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<td>P-3</td>
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<tr>
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<td>Agriscience Education</td>
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<td>Business and Marketing Education</td>
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<td>Chemistry Education</td>
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<td>Early Childhood Education</td>
<td>X</td>
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<tr>
<td>Elementary Education</td>
<td>X</td>
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<td>English Language Arts Education/English</td>
<td>X</td>
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<tr>
<td>French Education</td>
<td>X</td>
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<tr>
<td>General Science Education</td>
<td>X</td>
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<td>General Social Science Education/History</td>
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<td>German Education</td>
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<tr>
<td>Mathematics Education</td>
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<td>Music Education, Instrumental and Vocal</td>
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<td>Physics Education</td>
<td>X</td>
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<tr>
<td>Spanish Education</td>
<td>X</td>
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<tr>
<td>School of Kinesiology</td>
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<tr>
<td>Physical Education/Teacher Education</td>
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### Assurance of Competence

The College of Education guarantees the success of graduates who receive initial professional certification through the college and who are employed within their area(s) of specialization. The college will provide remediation at no cost to an individual who was recommended for certification by the College of Education and whose job performance within two years after program completion is deemed unsatisfactory by a local education agency based on performance evaluations established by the Alabama State Board of Education.

### Health- and Rehabilitation-related Majors

Exercise science and physical activity and health (including an option in fitness, conditioning and performance) are offered in the School of Kinesiology. Rehabilitation and disability studies is offered in the Department of Special Education, Rehabilitation, and Counseling.

### Major with Restricted Enrollment

Due to high demand, the elementary education major has a restricted enrollment. A total of 75 elementary education applicants are admitted each year with admission decisions occurring in fall and spring. Applications are considered only if students have met all criteria noted in the Admission to Teacher Education section above. Fall semester 25 applicants are accepted and begin a cohort sequence the following spring semester; spring semester 50 applicants are accepted and begin a cohort sequence the following fall semester. Rankings for elementary education applicants are determined by the AU Core GPA and a professional interview which includes a review of a resume, a writing sample, and a face-to-face interview.

### Dual Objective Program

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### Non-degree Program

The Physical Activity and Wellness Program is a non-degree program that requires 8 hours (4 courses), including KINE 1100/KINE 1103, Wellness, and 3 courses (each one from a different category of physical activity). Categories include cardio-respiratory fitness (PHED 1200), fitness and conditioning (PHED 1300), team sports (PHED 1400), individual sports (PHED 1500), performance activities (PHED 1600), and aquatic skills (PHED 1700). Students who complete the 8-hour program may apply for a Physical Activity and Wellness Certificate, issued by the School of Kinesiology. Students may also elect to take individual courses, without completing the 8-hour program. Of course, students may elect to take more than four courses if they desire to use the program to ensure a regular physical activity program.

### Learning Resources Center

The Learning Resources Center (LRC), located in 3408/3410 Haley Center, is a service unit for the College of Education. The LRC provides instructional technology services which include video recordings, computer software, audio recordings, kits, books, and periodicals for the education profession. Two computer classrooms, a Micro-Center, and the college computer network are managed by the LRC. LRC personnel assist faculty and students with the production, selection, and utilization of newer instructional and informational technologies. Online education technologies and support services are provided. Art design and digital document production services are available to College of Education faculty and staff.

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Minors

- Community Music (http://bulletin.auburn.edu/undergraduate/collegeofeducation/curriculumandteaching/communitymusic_minor)
- Counseling (http://bulletin.auburn.edu/undergraduate/collegeofeducation/specialeducationrehabilitationandcounseling/ counseling_minor)
- Office Systems Management (http://bulletin.auburn.edu/undergraduate/collegeofeducation/curriculumandteaching/ officesystemsmanagement_minor)
- Sport Coaching (http://bulletin.auburn.edu/undergraduate/collegeofeducation/kinesiology/sportcoaching_minor)

Graduate Programs

The College of Education offers graduate programs that prepare professionals in the fields of education, kinesiology, counseling, and rehabilitation. Offerings include M.Ed., M.S., Ed.S., and Ph.D. degree programs, graduate minors, and graduate certificates. Alternative master’s certification degree programs offer qualified individuals who hold non-teaching baccalaureate degrees a route to initial teacher certification while simultaneously earning a master’s degree.

Departments

- Curriculum and Teaching - MEd, MS, EdS, PhD (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major)
- Educational Foundations, Leadership and Technology - MEd, MS, EdS, PhD (http://bulletin.auburn.edu/thegraduateschool/ graduatedegreesoffered/educationalfoundationsleadershiptechnologymedmsedsphd_major)
- Kinesiology - MEd, MS, EdS, PhD (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ kinesiologymedmsedsphd_major)
- Special Education, Rehabilitation, & Counseling - MEd, MS, PhD (http://bulletin.auburn.edu/thegraduateschool/ graduatedegreesoffered/specialeducationrehabilitationandcounseling_major)

Curriculum and Teaching - MEd, MS, EdS, PhD

Degree Programs

- Agriscience Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/agriscience)
- Business and Marketing Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/businessandmarketingeducation)
- Career and Technical Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/careerandtechnicaleducation)
- Early Childhood Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/earlychildhoodeducation)
- Elementary Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/elementaryeducation)
- English for Speakers of Other Languages (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/englishforspeakersofotherlanguages)
- English Language Arts Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/englishlanguageartseducation)
- Foreign Language Education: French or Spanish (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/foreignlanguageeducationrrenchorspanish)
- Mathematics Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/mathematicseducation)
- Music Education: Instrumental or Vocal (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/ curriculumandteachingmedmsedsphd_major/musiceducationinstrumentalorvocal)
• Reading Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/curriculumandteachingmedmsedsphd_major/readingeducation)
• Science Education: General Science, Biology, Chemistry, or Physics (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/curriculumandteachingmedmsedsphd_major/scienceeducation)
• Social Science Education: General Social Science or History (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/curriculumandteachingmedmsedsphd_major/socialscienceeducation)

Graduate Certificates

• Adult Education and English Language Teaching (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/adulteducationandenglishlang_certificate)
• Community Music (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/curriculumandteachingmedmsedsphd_major/communitymusiceducationcertificate)
• Reading Instruction (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/curriculumandteachingmedmsedsphd_major/readinginstruction_certificate)
• Teaching English as a Second Language (TESL)/Teaching English as a Foreign Language (TEFL) (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/curriculumandteachingmedmsedsphd_major/teachingenglishsecondandforeignlanguage)

Educational Foundations, Leadership and Technology - MEd, MS, EdS, PhD

Degree Programs

• Administration of Elementary and Secondary Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/administrationofelementaryandsecondaryeducation)
• Administration of Higher Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/administrationofhighereducation)
• Administration of Supervision and Curriculum (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/administrationofsupervisionandcurriculum)
• Adult Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/adulteducation)
• Agricultural Leadership (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/agriculturalleadership_ms)
• Educational Psychology (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/educationalpsychology)
• Library Media (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/librarymedia)

Graduate Certificates

• Adult Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/adulteducation)
• Adult Education and English Language Teaching (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/adulteducationandenglishlang_certificate)
• College/University Teaching (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/collegeuniversityteaching_certificate)
• Educational Leadership (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/educationalleadership_certificate)
• Extension Educator (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/extensioneducator_certificate)
• Instructional Leadership (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/instructionalleadership_certificate)
• Instructional Technology for Distance Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/instructionalleadership_certificate)
• Program Evaluation (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/programevaluation_certificate)
• Technology Educator (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/educationalfoundationsleadershipandtechnologymedmsedsphd_major/technologyeducator_certificate)

Minor
• Sport Management (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/kinesportmanagement_minor)

Kinesiology - MS, PhD

Degree Programs
• Exercise Science (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/exercisescience)
• Physical Activity and Health (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/physicalactivityandhealth)
• Physical Education/Teacher Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/physicalactiviteteachereducation)
• Kinesiology (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/kinesiology)

Graduate Certificate
• Movement Skill Analysis (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/movementsill_cert)

Graduate Minor
• Sport Management (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/kinesiologymedmsedsphd_major/kinesportmanagement_minor)

Special Education, Rehabilitation, and Counseling - MEd, MS, EdS, PhD

Degree Programs
• Clinical Mental Health Counseling (http://bulletin.auburn.edu/undergraduate/collegeofeducation/specialeducationrehabilitationandcounseling/clinicalmentalhealthcounseling_medms)
• Clinical Rehabilitation Counseling (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/rehabilitationcounseling)
• Counselor Education (http://bulletin.auburn.edu/undergraduate/collegeofeducation/specialeducationrehabilitationandcounseling/counseloreduction_phd)
• Counseling Psychology (http://bulletin.auburn.edu/undergraduate/collegeofeducation/specialeducationrehabilitationandcounseling/counselingpsychology_phd)
• Collaborative Teacher Special Education, K-12 (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/specialeducationcollaborative)
• Early Childhood/Elementary Special Education, P-6 (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/specialeducationelementary)
• Rehabilitation and Special Education (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/rehabilitationandspecialeducation)
• School Counseling (http://bulletin.auburn.edu/undergraduate/collegeofeducation/specialeducationrehabilitationandcounseling/schoolcounseling)

Graduate Certificates
• Transition Specialist (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/transitionspecialist_cert)
• Intervention for Students with Autism and Developmental Disabilities (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/interventionforstudent_cert)

• Rehabilitation Leadership and Management (http://bulletin.auburn.edu/thegraduateschool/graduatedegreesoffered/specialeducationrehabilitationandcounseling_major/rehabilitationleadershipandmanagement_cert)

Adult Education Courses

ADED 4010/4013 LEARNING RESOURCES IN AREA OF SPECIALIZATION (3) LEC. 3. Departmental approval. Selecting, developing, utilizing, and evaluating instructional resources and technology for teaching.

ADED 4050/4053 METHODS OF TEACHING IN ADULT EDUCATION (3) LEC. 2. LAB. 2. Methods and techniques of instruction using appropriate instructional materials; planning and evaluation of instruction for programs within adult education.

ADED 4600/4603 NATURE OF ADULT EDUCATION (3) LEC. 3. History and principles of adult education applied to the development and implementation of programs in remedial, occupational, continuing, and life-long learning.

ADED 4610 DIRECTED WORK EXPERIENCE (3) LEC. 3. SU. Departmental approval. In-service, supervised work experience individually designated for part-time or summer work experience.

ADED 4620 COMMUNITY CONCEPTS, PROGRAMS, AND RESOURCES IN ADULT EDUCATION (3) LEC. 3. Departmental approval. Processes by which adult education is merged with community organizations to maximize the effective use of physical and human resources.

ADED 4650/4653 TEACHING THE DISADVANTAGED ADULT (3) LEC. 3. Departmental approval. Problems of the disadvantaged adult with emphasis on the unique sociological, psychological, and physiological factors that influence learning and participation in remedial learning activities.


ADED 4900 INDEPENDENT STUDY (1-6) IND. Departmental approval. Independent study directed toward desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

ADED 4910/4913 PRACTICUM (1-6) PRA. SU. Departmental Approval. Experience relating theory and practice, usually carried on simultaneously. Course may be repeated for a maximum of 6 credit hours.

ADED 4920 PROFESSIONAL INTERNSHIP IN ADULT EDUCATION (9) INT. 9. SU. Departmental approval. Supervised internship experiences in a school or other appropriate setting. Evaluation and analysis of the internship experience. Or Minor.

ADED 4970 SPECIAL TOPICS (1-6) LEC. Departmental approval. Current or special topics within adult education. Course may be repeated for a maximum of 6 credit hours.

ADED 7010/7016 LEARNING RESOURCES (3) LEC. 3. Selecting, developing, utilizing, and evaluating instructional resources and technology for teaching. May count either ADED 7010 or ADED 7016.

ADED 7050/7056 METHODS OF TEACHING IN ADULT EDUCATION (3) LEC. 3. Methods and techniques of instruction using appropriate instructional materials; planning and evaluation of instruction for programs within adult education. May count either ADED 7050 or ADED 7056.

ADED 7060/7066 CURRICULUM AND PROGRAM PLANNING IN ADULT EDUCATION (3) LEC. 3. Introduction to principles and practices involved in designing education programs in the area of specialization. May count either ADED 7060 or ADED 7066.

ADED 7600/7606 NATURE OF ADULT EDUCATION (3) LEC. 3. History and principles of adult education applied to the development and implementation of programs in remedial, occupational, continuing and life-long learning. May count either ADED 7600 or ADED 7606.

ADED 7620/7626 CONCEPTS, PROGRAMS, AND RESOURCES IN ADULT EDUCATION (3) LEC. 3. Processes by which adult education is merged with community organizations to maximize the effective use of physical and human resources. May count either ADED 7620 or ADED 7626.

ADED 7640/7646 WORKFORCE EDUCATION (3) LEC. 3. Identification and evaluation of basic skills problems in the workplace. Strategies for addressing workplace education issues. May count either ADED 7640 or ADED 7646.
ADED 7650/7656 TEACHING THE DISADVANTAGED ADULT (3) LEC. 3. Problems of the disadvantaged adult with emphasis on the unique sociological, psychological, and physiological factors that influence learning and participation in remedial learning activities. May count either ADED 7650 or ADED 7656.

ADED 7670/7676 ADULT EDUCATION IN COOPERATIVE EXTENSION (3) LEC. 3. Exploration of the unique relationship between adult education and the Cooperative Extension System. May count either ADED 7670 or ADED 7676.

ADED 7680/7686 LEARNING STYLES IN ADULT EDUCATION (3) LEC. 3. This course is designed to provide students with an understanding of the various learning styles perspectives in Adult Education. May count either ADED 7680 or ADED 7686.

ADED 7690/7696 MEETING DIVERSE NEEDS IN ADULT EDUCATION SETTINGS (3) LEC. 3. This course provides an innovative look at disability services in post-secondary institutions. Learners will study the history of disability services, legislation, campus accessibility, assessment of the accessibility of adult education settings and other topics of interest.

ADED 7900 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. Independent study directed toward desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 3 credit hours.

ADED 7910/7916 PRACTICUM (1-3) PRA. SU. Departmental approval. Experiences closely relating theory and practice, usually carried on simultaneously. Course may be repeated for a maximum of 3 credit hours.

ADED 7920/7926 INTERNSHIP (1-10) INT. SU. Supervised internship experiences in a school, college or other appropriate setting. Evaluation and analysis of the internship experience. May count either ADED 7920 or ADED 7926. Course may be repeated for a maximum of 10 credit hours.

ADED 7950 SEMINAR (1-3) SEM. SU. Presentation of research projects, analysis of procedures, and findings. Course may be repeated for a maximum of 3 credit hours.

ADED 7960 READINGS (1-3) IND. Departmental approval. Critical analysis of current and classical research and writings. Course may be repeated for a maximum of 6 credit hours.

ADED 7970 SPECIAL TOPICS (1-6) LEC. Departmental approval. Current or advanced topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

ADED 7990/7996 RESEARCH AND THESIS (1-10) MST. Departmental approval. Individualized support and direction for students writing their thesis. Course may be repeated with change in topics.

ADED 8900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study directed toward desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

ADED 8910 PRACTICUM (1-6) PRA. SU. Departmental approval. Experiences closely relating theory and practice, usually carried on simultaneously. Course may be repeated for a maximum of 6 credit hours.

ADED 8920 INTERNSHIP (1-10) INT. SU. Departmental approval. Supervised internship experiences in a school, college, or other appropriate setting. Evaluation and analysis of the internship experience. Course may be repeated for a maximum of 10 credit hours.

ADED 8950 SEMINAR (1-6) SEM. SU. Presentation by graduate students of research projects and/or analysis of procedures and findings. Course may be repeated for a maximum of 6 credit hours.

ADED 8960 SPECIAL PROBLEMS (1-6) IND. Departmental approval. Critical analysis of current and classical research writings. Course may be repeated for a maximum of 6 credit hours.

ADED 8970 SPECIAL TOPICS (1-6) LEC. Departmental approval. Current or advanced topics within adult education. Course may be repeated for a maximum of 6 credit hours.

ADED 8980/8986 FIELD PROJECT (1-10) FLD. SU. Field project formulated, planned, conducted, evaluated, and reported in appropriate written form and oral formats under the direction of the student's major professor. Course may be repeated for a maximum of 10 credit hours.

ADED 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Departmental approval. Individualized support and direction for students writing their dissertation. Course may be repeated for a maximum of 10 hours.
Career and Technical Courses

CTCT 1200 KEYBOARDING AND FORMATTING (3) LEC. 1. LAB. 4. Mastery of alphanumeric keyboard with basic keyboarding and formatting applications of business documents. (Students with previous keyboarding/typewriting instruction consult with Business/Marketing Education faculty for placement.)

CTCT 2100/2103 POWER EQUIPMENT TECHNOLOGY (3) LEC. 2. LAB. 3. Repair and maintenance of small air-cooled engines and power equipment in Agriculture. May count either CTCT 2100 or CTCT 3100.

CTCT 2200/2203 COMPUTER LITERACY IN BUSINESS EDUCATION (3) LEC. 1. LAB. 4. Advanced formatting, processing, and evaluation of business correspondence, as well as administrative and employment documents. Includes basic computer literacy skills. May count either CTCT 2200 or CTCT 2203.

CTCT 3000/3003 LEADERSHIP SKILLS FOR PERSONAL AND ORGANIZATIONAL DEVELOPMENT (3) LEC. 3. Organizational and leadership skills needed to become successful professionals in work or community activities; skills and strategies for conducting efficient meetings. Departmental approval. May count either CTCT 3000 or CTCT 3003.

CTCT 3200/3203 RECORDS MANAGEMENT (2) LEC. 2. Integrated records management systems, records management functions, classification systems, micrographics, electronic records, and records management careers. Departmental approval. May count either CTCT 3200 or CTCT 3203.

CTCT 3240/3243 INFORMATION PROCESSING I (3) LEC. 2. LAB. 2. Pr. CTCT 2200 or CTCT 2203 or (CTSE 2200 or CTSE 2203 or CTSE 2207). Exploration of organizational needs for text-based information processing. Functions and capabilities of text-based information processing components. Departmental approval. May count either CTCT 3240 or CTCT 3243.

CTCT 3250/3253 INFORMATION ANALYSIS (3) LEC. 3. Decision-making and business problem solving using microcomputer software applications including spreadsheets, database management programs, and operating systems. May count either CTCT 3250 or CTCT 3253.

CTCT 4000/4003 CLASSROOM/LABORATORY MANAGEMENT, ORGANIZATION AND EVALUATION IN CAREER AND TECHNICAL EDUCATION (2) LEC. 2. Admission to Teacher Education. Organization, objectives, principles, management, and evaluation of career and technical education classrooms, laboratories, and programs. May count either CTCT 4000 or CTCT 4003.

CTCT 4030/4033 CAREER AND TECHNICAL STUDENT ORGANIZATIONS (3) LEC. 3. Survey of career and technical student organizations; procedures involved in developing and implementing informal and co-curricular educational programs for students and preparing students for state and national competitions.


CTCT 4160/4163 SUPERVISED AGRICULTURAL EXPERIENCE PROGRAMS (2) LEC. 2. Responsibility for SAEP planning, supervision, and evaluation of entrepreneurship, placement, exploratory, analytical, and experimental SAEPs and record books; completing award applications.

CTCT 4200/4203 MANAGING OFFICE SYSTEMS (3) LEC. 2. LAB. 2. Pr. CTCT 3250 or CTCT 3253. Capstone course with emphasis on integration of information processing procedures, administrative support, and management functions. Departmental approval. May count either CTCT 4200 or CTCT 4203.

CTCT 4900/4903 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. The student's learning efforts are guided toward desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTCT 4910/4913 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. SU. Departmental approval. Provides experience relating theory and practice, usually carried on simultaneously. Course may be repeated for a maximum of 6 credit hours.

CTCT 4920/4923 CLINICAL RESIDENCY (12) AAB. 40. SU. Admission to Teacher Education. Admission to Clinical Residency. Supervised clinical residency experiences abroad in a school or other appropriate setting. Evaluation and analysis of the clinical residency experience. May count either CTCT 4920 or CTCT 4923.

CTCT 4940/4943 DIRECTED FIELD EXPERIENCE IN AREA OF SPECIALIZATION (1-3) FLD. SU. Supervised occupational work experience in an approved specialization-related occupation. Departmental approval. May count either CTCT 4940 or CTCT 4943. Course may be repeated for a maximum of 3 credit hours.
CTCT 4970/4973 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6) LEC. Departmental approval. Current or special topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

CTCT 5050/5053 METHODS OF TEACHING IN AREA OF SPECIALIZATION (3) LEC. 2. LAB. 2. Admission to Teacher Education. Methods and techniques of instruction using appropriate instructional materials; planning and evaluation of instruction for programs within career and technical education. May count CTCT 5050, CTCT 5053, CTCT 6050, or CTCT 6056.

CTCT 5060 PROGRAM PLANNING IN AREA OF SPECIALIZATION (3) LEC. 3. Admission to Teacher Education. Introduction to principles and practices involved in designing education programs in the area of specialization. May count CTCT 5060, CTCT 6060, or CTCT 6066.

CTCT 5080/5083 PRINCIPLES OF COORDINATION (3) LEC. 3. Admission to Teacher Education. Coordination, placement, and supervision of students in work-based programs; development of employability skills. May count CTCT 5080, CTCT 5083, CTCT 6080, or CTCT 6086.

CTCT 5200/5203 RECORDS MANAGEMENT SYSTEMS (3) LEC. 3. Study of integrated records management systems, functions, systems, and careers; including decision making and problem solving using software applications. May count either CTCT 5200/CTCT 6200 or CTCT 6200/CTCT 6206.

CTCT 5240/5243 MULTIMEDIA DESIGN (3) LEC. 3. Focus on presentation, desktop publishing, multimedia production, web page design, and digital graphics. may count either CTCT 5240/CTCT 5243 or CTCT 6240/CTCT 6246.

CTCT 5250/5253 INFORMATION DESIGN & ANALYSIS (3) LEC. 3. Decision making, problem solving, and presentation using business software applications. May Count Either CTCT 3250/CTCT 3253 or CTCT 5250/CTCT 5253 CTCT 6250/CTCT 6256.

CTCT 5260/5263 APPLIED COMPUTER TECHNOLOGY (3) LEC. 3. Capstone course with emphasis on integration of business software for decision making, processing, collaboration and management functions, including accounting and financial management. May count either CTCT 5260/CTCT 5263 or CTCT 6260/CTCT 6266.

CTCT 5940/5943 WORK EXPERIENCE IN INFORMATION TECHNOLOGY (3) LEC. 3. SU. Supervised occupational work experience in a Commerce and Information Technology environment. May count either CTCT 4940/CTCT 4943 or CTCT 5940/CTCT 5943 or CTCT 6940/CTCT 6946.

CTCT 6050/6056 METHODS OF TEACHING IN AREA OF SPECIALIZATION (3) LEC. 2. LAB. 2. Methods and techniques of instruction using appropriate instructional materials; planning and evaluation of instruction for programs within the area of specialization. Admission to alternative master’s program. May count CTCT 5050, CTCT 5053, CTCT 6050, or CTCT 6056.

CTCT 6060/6066 PROGRAM PLANNING IN AREA OF SPECIALIZATION (3) LEC. 3. Introduction to principles and practices involved in designing educational programs in the area of specialization. Admission to alternative master's program. May count CTCT 5060, CTCT 6060, or CTCT 6066.

CTCT 6080/6086 PRINCIPLES OF COORDINATION (3) LEC. 3. Coordination, placement, and supervision of students in work-based programs; development of employability skills. May count CTCT 5080, CTCT 5083, CTCT 6080, or CTCT 6086.

CTCT 6200/6206 RECORDS MANAGEMENT SYSTEMS (3) LEC. 3. Study of integrated records management systems, functions, and careers; including decision making and problem solving using software applications. May count either CTCT 5200/CTCT 5203 or CTCT 6200/CTCT 6206.

CTCT 6240/6246 MULTIMEDIA DESIGN (3) LEC. 3. Focus on presentation, desktop publishing, multimedia production, web page design, and digital graphics. May count either CTCT 6240/CTCT 62406 or CTCT 5240/5243.

CTCT 6250/6256 INFORMATION DESIGN & ANALYSIS (3) LEC. 3. Decision making, problem solving, and presentation using business software applications. May count either CTCT 6250/CTCT 6256 or CTCT 5250/5253.

CTCT 6260/6266 APPLIED COMPUTER TECHNOLOGY (3) LEC. 3. Capstone course with emphasis on integration of business software for decision making, processing, collaboration and management functions, including accounting and financial management. May count either CTCT 5260/CTCT 5263 or CTCT 6260/6266.

CTCT 6940/6946 WORK EXPERIENCE IN INFORMATION TECHNOLOGY (3) LEC. 3. SU. Supervised occupational work experience and software application in a Commerce and Information Technology environment. May count either CTCT 6940/CTCT 6946 or CTCT 5940/5943.
CTCT 7000/7006 FOUNDATIONS OF CAREER AND TECHNICAL EDUCATION (3) LEC. 3. Philosophical, historical, economic, and sociological perspectives of vocational education in relation to the organization of vocational education programs. May count either CTCT 7000 or CTCT 7006.

CTCT 7100/7106 TEACHING MECHANICAL TECHNOLOGY (3) LEC. 2. LAB. 2. Theory and practice of managing agricultural mechanics laboratories, theories of machine operation, and maintaining laboratory equipment. May count either CTCT 7100 or CTCT 7106.

CTCT 7200/7206 CAREER AND OCCUPATIONAL INFORMATION (3) LEC. 3. Trends and issues in occupational structure, job qualifications and requirements, and sources of occupational information for new and emerging occupations; analysis of career education models for students. Departmental approval. May count either CTCT 7200 or CTCT 7206.

CTCT 7300/7306 INTEGRATING TECHNOLOGY IN CAREER AND TECHNICAL EDUCATION (3) LEC. 3. Pr. CTCT 5050 or CTCT 6050 or CTCT 5053 or CTCT 6053. Selecting, developing, utilizing, and evaluating instructional resources and technology for teaching. Departmental approval. May count either CTCT 7300 or CTCT 7306.

CTCT 7400/7406 AGRICULTURAL LITERACY EDUCATION (3) LEC. 3. Theories and application of agricultural literacy related scientific and technologically based concepts and processes required for personal decision making, participating in civic and cultural affairs, and economic productivity.

CTCT 7710/7716 ADVANCED TEACHING METHODS (3) LEC. 3. Pr. (CTCT 5050 or CTCT 5053) or (CTCT 6050 or CTCT 6056). Analysis of research in theories of teaching and learning, effective teacher characteristics, learning styles, teaching methodologies, and diversity in teaching. Departmental approval. May count either CTCT 7710 or CTCT 7716.

CTCT 7720/7726 ADVANCED PROGRAM PLANNING IN AREA OF SPECIALIZATION (3) LEC. 3. Pr. CTCT 5060 or CTCT 6060 or CTCT 5063 or CTCT 6066. Issues affecting the development and management of educational programs; strategies for improving educational programs. Departmental approval. May count either CTCT 7720 or CTCT 7726.

CTCT 7730/7736 PROGRAM EVALUATION (3) LEC. 3. Pr. (CTCT 7720 or CTCT 7726). Principles and procedures used in evaluating academic-related programs. Alternative approaches to evaluation and practical guidelines for conducting evaluations. Departmental approval. May count either CTCT 7730 or CTCT 7736.

CTCT 7750/7756 ADMINISTRATION OF CAREER AND TECHNICAL EDUCATION (3) LEC. 2. LAB. 2. Introduction to concepts, theories and practices related to administration, organizational behavior, and leadership in secondary and post-secondary vocational education programs. Departmental approval. May count either CTCT 7750 or CTCT 7756.

CTCT 7760/7766 COMPREHENSIVE PLANNING IN CAREER AND TECHNICAL EDUCATION (3) LEC. 2. LAB. 2. Pr. (CTCT 7750 or CTCT 7756). Processes of comprehensive planning for vocational education programs at high school and secondary school levels using local, state, and regional data. Departmental approval. May count either CTCT 7760 or CTCT 7766.

CTCT 7770/7776 CLINICAL SUPERVISION (3) LEC. 3. Pr. (CTCT 7710 or CTCT 7716). Theories, concepts, models, and techniques of student teacher and beginning teacher supervision by administrators, school district personnel, and university supervisors. Recommended for individuals who supervise or plan to supervise student teachers. Departmental approval. May count either CTCT 7770 or CTCT 7776.

CTCT 7780/7786 RESEARCH IN CAREER AND TECHNICAL EDUCATION (3) LEC. 3. Review, analysis and interpretation of research procedures and data with emphasis on designing new research in vocational and adult education. Departmental approval. May count either CTCT 7780 or CTCT 7786.
CTCT 7810 SUPERVISED COLLEGE TEACHING (1) LEC. 1. SU. Departmental approval. Practical experience in the classroom under the supervision of a faculty mentor. Course may be repeated for a maximum of 2 credit hours.

CTCT 7900/7906 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. Independent learning effort directed toward desired objectives. Includes evaluation at regular intervals by student and professor. Course may be repeated for a maximum of 3 credit hours.

CTCT 7910/7916 PRACTICUM IN AREA OF SPECIALIZATION (1-3) PRA. SU. Departmental approval. Experiences closely relating theory and practice. Course may be repeated for a maximum of 3 credit hours.

CTCT 7920/7926 CLINICAL RESIDENCY (9-12) AAB/INT. 40. SU. Admission to Clinical Residency. Supervised internship experiences in a school, college or other appropriate setting. Evaluation and analysis of the internship experience. Departmental approval. May count either CTCT 7920 or CTCT 7926. Course may be repeated for a maximum of 12 credit hours.

CTCT 7950/7956 SEMINAR IN AREA OF SPECIALIZATION (1-3) SEM. SU. Departmental approval. Presentation by graduate students of research projects and/or findings. Analysis of procedures and findings. Course may be repeated for a maximum of 3 credit hours.

CTCT 7960/7966 SPECIAL PROBLEMS (1-3) IND. Departmental approval. Critical analysis of current and classical research and writings. Course may be repeated for a maximum of 3 credit hours.

CTCT 7970/7976 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6) LEC. Departmental approval. Current or advanced topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

CTCT 7990/7996 RESEARCH AND THESIS (1-10) MST. Course may be repeated for a maximum of 10 credit hours.

CTCT 8730/8736 CURRICULUM DEVELOPMENT IN CAREER AND TECHNICAL EDUCATION (3) LEC. 3. Pr. CTCT 7730 or CTCT 7736. Principles of career and technical education curriculum planning, identification of educational needs of students, selecting technical content, and evaluating materials. May count either CTCT 8730 or CTCT 8736.

CTCT 8770/8776 SUPERVISION OF INSTRUCTION (3) LEC. 3. Pr. CTCT 7770 or CTCT 7776. Theories and models to become effective supervisors of vocational and adult education programs; philosophies and styles of supervision used to improve schools, instruction, curriculum and personnel. Departmental approval. May count either CTCT 8870 or CTCT 8876.

CTCT 8800/8806 TEACHER EDUCATION (3) LEC. 3. Emphasis on beliefs, philosophy, issues, research, roles, student selection, curriculum, methodology, internships, organization, and administration of teacher education programs. Departmental approval. May count either CTCT 8800 or CTCT 8806.

CTCT 8810 SUPERVISED COLLEGE TEACHING (1-10) LEC. 3. Practical experience in the classroom under the supervision of a faculty mentor. Course may be repeated for a maximum of 10 credit hours.

CTCT 8900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent learning efforts at desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTCT 8910 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. SU. Departmental approval. Experiences closely relating theory and practice. Course may be repeated for a maximum of 6 credit hours.

CTCT 8920 INTERNSHIP (1-10) INT. SU. Departmental approval. Supervised internship experiences in a school, college or other appropriate setting. Evaluation and analysis of the internship experience. Course may be repeated for a maximum of 10 credit hours.

CTCT 8950 SEMINAR IN AREA OF SPECIALIZATION (1-6) SEM. Departmental approval. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 6 credit hours.

CTCT 8960 SPECIAL PROBLEMS (1-6) IND. Departmental approval. Critical analysis of current and classical research and writings. Course may be repeated for a maximum of 6 credit hours.

CTCT 8970 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6) LEC. Departmental approval. Current or advanced topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

CTCT 8980/8986 FIELD PROJECT (1-10) FLD. 1. SU. Departmental approval. Field project. Course may be repeated for a maximum of 10 credit hours.

CTCT 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Course may be repeated for a maximum of 20 credit hours.
Counselor Ed, Counseling Psych Courses

COUN 1000 CAREER ORIENTATION EXPLORATION (2) LEC. 1. LAB. 2. The process of career decision-making through hands-on activities, in-class exercises, and job shadowing.

COUN 2000/2003 LIVING AND COMMUNICATING IN A DIVERSE SOCIETY (3) LEC. 3. The class developing cultural competence in context of relationships, issues, and trends in a multicultural and diverse society related to such factors as culture, ethnicity, nationality, age, gender, sexual orientation, and mental and physical abilities/disabilities.

COUN 2020/2023 INTRODUCTION TO LGBTQ STUDIES (3) LEC. 3. The class focuses on content addressing and introduces lesbian, gay, bisexual, and transgender studies. The course will examine the historical, scientific, psychological, and cultural contexts of relationships, issues and trends in a diverse society related to sexual orientation.

COUN 2900 DIRECTED STUDIES (1-3) IND. SU. Reading, research, or other work undertaken by a student focused on an area of special interest. Directed by faculty member. Course may be repeated for a maximum of 9 credit hours.

COUN 2940 DIRECTED FIELD EXPERIENCE (1-3) FLD. Course may be repeated for a maximum of 9 credit hours.

COUN 2950/2953 THRIVING THROUGH TRANSITIONS (1) SEM. 1. This course requires participation in activities that support healthy living and assignments that facilitate understanding of mechanisms that promote well-being. Course content reviews the process of recovery from addiction and mechanisms used to support long-term recovery. Course may be repeated for a maximum of 12 credit hours.

COUN 2970/2973 SPECIAL TOPICS IN COLLEGE STUDENT DEVELOPMENT (1-3) LEC. Selected topics in college student development. Fall, Spring. Course may be repeated for a maximum of 12 credit hours.

COUN 3000/3003 CAREER SUCCESS (2) LEC. 2. Developing a career plan via instruction on researching careers, writing resumes, developing portfolios, interviewing, net working and other career development practices. May count either COUN 3000 or COUN 3003.

COUN 3100/3103 COUNSELING AND HUMAN SERVICES (3) LEC. 3. Counseling concepts and skills appropriate in the helping professions. Not open to graduate students in counseling education.

COUN 3980/3983 SUPERVISED RESEARCH EXPERIENCE IN COUNSELING (3) LAB. 3. SU. This course provides students with the opportunity to gain supervised research experience in counselor education, counseling psychology, and special education programs. Students will work with the faculty instructor to gain experience in a range of research activities. Course may be repeated for a maximum of 12 credit hours.

COUN 4000/4003 INTRODUCTION TO COUNSELING AND PSYCHOTHERAPY (3) LEC. 3. Pr. COUN 2000. Current theory, research, and practice regarding counseling and psychotherapy. We will cover several current issues related relevant to counseling and psychotherapy, including the process of change, theoretical perspectives, ethical issues.

COUN 4010/4013 INTRODUCTION TO PREVENTION AND MENTAL HEALTH PROMOTION (3) LEC. 3. Pr. COUN 2000. Addressing the ideas of prevention and health promotion in counseling psychology. We will address such concepts as positive psychology, mindfulness, stress, health promotion, body image, social justice theory, social advocacy, and prevention theory.

COUN 4910 PRACTICUM (1-3) PRA. SU. This course provides students with the opportunity to be actively involved in social justice efforts that affect the region and nation through gaining hands-on experience in a social justice agency. Course may be repeated for a maximum of 6 credit hours.

COUN 4970/4973 SPECIAL TOPICS IN COUNSELING (3) LAB. 3. Introduction to selected topic in counseling. Course will provide a semester-long introduction and introduction into research in the topic of interest using a seminar style of instruction. Course may be repeated for a maximum of 9 credit hours.

COUN 7010/7016 MEDICAL VOC & PSYCHOSOCIAL ASPECTS OF DISABILITY (3) LEC. 3. An introduction to medical terminology, body systems, common physical and cognitive conditions therapeutic/restorative services, and psychosocial & vocational considerations of various disabilities. May count COUN 7010, COUN 7016, RSED 6010 or RSED 6016.

COUN 7110/7116 OCCUPATIONAL, CAREER AND PLACEMENT SERVICES (3) LEC. The course is designed to familiarize students with career theory and methods used by rehabilitation practitioners to analyze and apply vocational techniques to place individuals with disabilities. May count COUN 7110, COUN 7116, RSED 6220 or RSED 6226.
COUN 7200 INTRODUCTION TO MEASUREMENT AND ASSESSMENT (3) LEC. 3. Pr. COUN 7100 or (COUN 7400 or COUN 7406) or COUN 8530. Introduction to the history and theory of measurement and assessment as it applies to counselors and psychologists.


COUN 7230 CAREER DEVELOPMENT AND VOCATIONAL APPRAISAL (3) LEC. 3. Career development theories appraising vocationally related interests, aptitudes, and personal characteristics. Laboratory practice in test procedures.

COUN 7240/7246 COUNSELING CHILDREN AND ADOLESCENTS (3) LEC. 3. Course provides awareness, knowledge, and skills for counseling children and adolescents using effective theoretical approaches, counseling modalities, and specific techniques. May count either COUN 7240 or COUN 7246.

COUN 7250/7256 ADVANCED ASSESSMENT AND DIAGNOSIS IN COUNSELING (3) LEC. 3. Pr. COUN 7100 or (COUN 7400 or COUN 7406) or COUN 8530. Assessment/diagnostic skills related to counseling: intake, assessment, diagnostic criteria, treatment planning, counseling interventions. May count either COUN 7250 or COUN 7256.

COUN 7310/7316 COUNSELING APPLICATIONS OF LIFESPAN DEVELOPMENT (3) LEC. 3. Theories and current research in development across the lifespan with emphasis on applications to counseling. May count either COUN 7310 or COUN 7316.

COUN 7320/7326 COUNSELING THEORIES (3) LEC. 3. Study of major counseling theories. May count either COUN 7320 or COUN 7326.

COUN 7330/7336 COUNSELING DIVERSE POPULATIONS (3) LEC. 3. Departmental approval. Special counseling and advocacy issues. Needs of diverse populations are considered.

COUN 7340 GROUP COUNSELING (3) LEC. 3. Leading, developing, evaluating a counseling group; including group proposal, session development, group dynamics, group leadership and evaluation, treatment planning; group intervention, counseling skills.

COUN 7350 INTRODUCTION TO COUNSELING PRACTICE (3) LEC. 3. Pr. (COUN 7320 or COUN 7326) or (COUN 7400 or COUN 7406) or COUN 8530. Methods, interventions, and skills essential to counseling.

COUN 7360 ADVANCED COUNSELING PRACTICE (3) LEC. 3. An intensive study of advanced counseling skills with supervised experience. Class format will include lecture, group discussion, role play, case and videotaped counseling practice analysis, observational analysis and evaluation of counseling techniques.

COUN 7370/7376 FOUNDATIONS OF SUBSTANCE USE COUNSELING (3) LEC. 3. Provides knowledge of the nature of substance abuse, drug classification, models of addiction, assessment and diagnosis, treatment, and related issues. May count COUN 7370, COUN 7376, RSED 6340, or RSED 6346.

COUN 7400/7406 ORIENTATION TO PROFESSIONAL COUNSELING (3) LEC. 3. Orientation to the counseling field with emphasis on philosophical, historical, psychological, and organizational foundations of professional practice.

COUN 7410 ORIENTATION TO CLINICAL MENTAL HEALTH COUNSELING (3) LEC. 3. Orientation to clinical mental health counseling to include roles, responsibilities, systems, theories, professional issues, and history.

COUN 7420 ORIENTATION TO SCHOOL COUNSEL (3) LEC. 3. Orientation to the role and activities of the K-12 school counselor. Emphasis on the components of a developmentally-oriented school counseling program.

COUN 7500/7506 CRISIS INTERVENTION IN COUNSELING (3) LEC. 3. Development of skills and knowledge for crisis intervention and management in counseling, including prevention planning, intervention strategies and evaluation.

COUN 7510 ADVANCED CLINICAL MENTAL HEALTH COUNSELING INTERVENTIONS (3) LEC. 3. Pr. COUN 7320 or COUN 7326. Advanced counseling interventions, practices, techniques and methods for mental health counselors, including treatment planning, counseling processes, and evaluation.

COUN 7520/7526 INTRODUCTION TO REHABILITATION AND CASE MANAGEMENT IN REHABILITATION COUNSELING (3) LEC. 3. Program organization and development of materials for curriculum improvement and teaching practices in a disability specialization area. COUN 7520 and COUN 7526 may be repeated for a maximum combined total of 9 credits with a change in disability specialization.
COUN 7900 DIRECTED STUDIES (1-3) IND. SU. Independent learning effort directed at desired objectives. Includes evaluation by professor and student at regular intervals. Course may be repeated for a maximum of 9 credit hours.

COUN 7910 PRACTICUM (3) LEC. 3. SU. Departmental approval. Supervised experiences appropriate to student's program emphasis area. Course may be repeated for a maximum of 9 credit hours.

COUN 7920 INTERNSHIP (1-9) INT. SU. Pr. COUN 7910. Departmental approval. Supervised on-the-job experiences. Course may be repeated for a maximum of 9 credit hours.

COUN 7930/7936 ADVANCED THEORIES IN COUNSELING PRACTICE (3) LEC. 3. Intensive study of advanced theories within rehabilitation counseling, as well as an examination of outcome research relating to the use and application of these theories and techniques. May count COUN 7930, COUN 7936, RSED 7940 or RSED 7946.

COUN 7940 DIRECTED FIELD EXPERIENCE (1-10) FLD. SU. Course may be repeated for a maximum of 10 credit hours.

COUN 7950/7956 EMERGING ADULTHOOD AND TRANSITION IN REHABILITATION (3) LEC. Introduction to the transition process of youth with disabilities from school to adulthood and employment with emphasis on the developmental stage emerging adulthood. May count COUN 7950, COUN 7956, RSED 7950 or RSED 7956.

COUN 7960 SPECIAL PROBLEMS (1-10) IND. SU. May be taken more than one semester. Course may be repeated for a maximum of 10 credit hours.

COUN 7970 SPECIAL TOPICS (1-3) AAB. An in-depth study of a current topic(s) impacting the professions related to departmental programs. Course may be repeated for a maximum of 9 credit hours.

COUN 7990 RESEARCH AND THESIS (1-10) MST. Course may be repeated with a change in topic. Course may be repeated with change in topics.

COUN 8100 PERSONALITY AND INDIVIDUAL DIFFERENCES (3) LEC. 3. Origins and structure of individual differences in personality and intelligence, and their application to counseling.

COUN 8110 COUNSELING ASSESSMENT ACROSS THE LIFESPAN (3) LEC. Development, administration, scoring and interpretation of personality, interest, aptitude, achievement, and attitude tests across the lifespan.

COUN 8120 APPRAISAL IN COUNSELING AND PSYCHOLOGY (3) LEC. Development, administration, scoring and interpretation of personality, interest, aptitude, achievement, attitude tests. Includes assessment interview, behavioral observation.

COUN 8200 INTELLECTUAL ASSESSMENT OF ADULTS (3) LEC. 2. LAB. 3. Pr. COUN 7200. Theory and measurement of adult intelligence. Administration and interpretation of selected tests.

COUN 8210 TEST ADMINISTRATION AND PROFESSIONAL PRACTICE (3) LEC. 3. Pr. COUN 7200 or ERMA 8350 or FOUN 8350 and COUN 7210. Coreq. COUN 8200. Administration and scoring of selected tests, primarily WAIS-IV, to familiarize students with measurements for assessment of adult intelligence.

COUN 8220 PSYCHOLOGICAL SCIENCE AND HEALTH (3) LEC. 3. Pr. PSYC 7150 and PSYC 7180 and COUN 7330 and COUN 7310. In this course, fundamental science relating to health and psychology will be reviewed, focusing on major theoretical foundations, research findings, and empirically supported interventions. Students will be expected to integrate foundational knowledge in psychological science with particular emphasis on biological.

COUN 8230 COLLOQUIUM IN COUNSELING PSYCHOLOGY I (2) SEM. 2. SU. This course provides pre-practicum students with training in the conduct of counseling psychology research to provide foundational skills in processes involved in research.

COUN 8240 COLLOQUIUM IN COUNSELING PSYCHOLOGY II (2) SEM. 2. SU. This course provides continued training in the conduct of counseling psychology research and provides opportunities to demonstrate an ability to evaluate psychotherapy research in order to achieve readiness for practicum in research skills.

COUN 8250 COLLOQUIUM IN COUNSELING PSYCHOLOGY III (2) SEM. 2. SU. Pr. COUN 8240. This course provides advanced training in the development, conduct, and dissemination of counseling psychology research and provides opportunities to demonstrate an ability to contribute to meaningful scholarship in Counseling Psychology.
COUN 8260 COLLOQUIUM IN COUNSELING PSYCHOLOGY IV (2) SEM. 2. SU. Pr. COUN 8250. This course provides advanced training in the development, conduct, and dissemination of social justice-oriented research and provides opportunities to demonstrate an ability to integrate concepts of equity and justice in the contribution to meaningful scholarship in Counseling Psychology.


COUN 8400 PROFESSIONAL SEMINAR COUNSELING PSYCHOLOGY (1-3) LEC. Scientific foundations of the counseling psychology profession and application of that foundational knowledge in counseling interventions. Course may be repeated for a maximum of 9 credit hours.

COUN 8510 CONTEMPORARY ISSUES IN COUNSELOR EDUCATION (3) LEC. 3. Departmental approval. History, development, current issues. Philosophical assumptions, legal and ethical considerations, new research service initiatives.

COUN 8520 CONTEMPORARY ISSUES IN SCHOOL PSYCHOLOGY (1-3) LEC. History, development, and current issues. Legal and ethical considerations, research and service initiatives, and new client populations. Course may be repeated for a maximum of 3 credit hours.

COUN 8530 CONTEMPORARY ISSUES IN COUNSELING PSYCHOLOGY (3) LEC. 3. History, development, and current professional issues. Philosophical and cultural assumptions, legal and ethical considerations, and current research topics.

COUN 8540 COUN SUPERVISION-THEORY & PRAC (3) LEC. 3. Advanced theories, skills, models and methods used in counseling supervision including counselor development, supervisory processes and evaluation.

COUN 8550/8556 COUNSELOR EDUCATION PEDAGOGY (3) LEC. 3. Counselor Education pedagogical skills and knowledge including; theories, course and curriculum development methods, and professional responsibilities. May count either COUN 8550 or COUN 8556.

COUN 8610 ADVANCED THEORIES: EXISTENTIAL/HUMANISTIC (3) LEC. 3. Theory and practice of humanistic/existential approaches to individual and group therapy.


COUN 8630 ADVANCED THEORIES: PSYCHODYNAMIC THEORIES (3) LEC. 3. Departmental approval. The origins, current status, and emerging applications of psychodynamic approaches to counseling.

COUN 8700 DIVERSITY AND SOCIAL JUSTICE IN COUNSELOR EDUCATION (3) LEC. 3. Must be admitted to the Counselor Education Doctoral Program. This advanced course provides students with information about issues of diversity and social justice. Students apply this information to their roles in the counseling profession, specifically as future counselor educators, leaders of the profession, and advocates.

COUN 8800 PROFESSIONAL DEVELOPMENT INTERNSHIP SKILLS (3) LEC. 3. This three-hour required course is designed to help students solidify their professional identity and effectively apply for their one-year Counseling Psychology internship.

COUN 8910 PRACTICUM (3) LEC. 3. SU. Departmental approval. Advanced supervised experiences appropriate to student's program emphasis. Course may be repeated for a maximum of 9 credit hours.

COUN 8920 INTERNSHIP (1-9) INT. SU. Departmental approval. Advanced supervised on-the-job experiences appropriate to doctoral-level study. Course may be repeated for a maximum of 9 credit hours.

COUN 8930 INTERNSHIP IN COUNSELING PSYCHOLOGY (0) INT. SU. Departmental approval. Supervised, full-time experience in Counseling Psychology at the doctoral level. May be repeated to satisfy 2000 clock hour accreditation requirement.

COUN 8970 SPECIAL TOPICS (1-3) SEM. SU. An in-depth study of the current educational, sociological, psychological, economic, health, legal, technological, and professional issues impacting the professions related to departmental programs. Course may be repeated for a maximum of 9 credit hours.

COUN 8980 FIELD PROJECT (1-10) FLD. SU. Departmental approval. Required for completion of the Education Specialist degree. Course may be repeated for a maximum of 10 credit hours.

COUN 8990 RESEARCH AND DISSERTATION (1-10) DSR.
Early Childhood Education Courses

CTEC 3020 PRIMARY MATH AND SCIENCE (3) LEC. 3. Exploration of learning and pedagogy for the development of math and science concepts appropriate for children in Kindergarten through Grade 3.

CTEC 3030 INTUITIVE THOUGHT AND SYMBOLIC FUNCTION (3) LEC. 3. Coreq. CTEC 4911. Young children's intuitive thought for pre-service teachers.

CTEC 3150 LANGUAGE DEVELOPMENT: IMPLICATIONS FOR THE CHILDHOOD EDUCATOR (3) LEC. 3. Applications of language development theories to teaching children. Emphasis on the effects theories have on curriculum and teaching.

CTEC 3200 A WORKING THEORY FOR THE CONSTRUCTIVIST EDUCATOR (3) LEC. 3. Constructivist theory for pre-service teachers preparing to teach at the early childhood level.


CTEC 4210/4213 THE CONSTRUCTIVIST TEACHER: GROWING PROFESSIONALLY (1) AAB. 1. Pr. CTEC 4920 or P/C CTEC 4923. Admission to Clinical Residency. The roles and responsibilities of being an early childhood professional. May count either CTEC 4210 or CTEC 4213.

CTEC 4900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Reading, research or other work undertaken independently by a student focused on a content area of special interest. Course may be repeated for a maximum of 6 credit hours.

CTEC 4910 PRACTICUM (1-6) PRA. SU. Departmental approval. Students and faculty cooperatively select and execute an appropriate field experience. Course may be repeated for a maximum of 6 credit hours.

CTEC 4911 PRACTICUM IN THE PRESCHOOL (2) LEC. 2. SU. Pr. CTEC 3200. Coreq. CTEC 3030. Laboratory experiences with children from birth to five years of age designed to help students relate theory to practice.

CTEC 4912 PRACTICUM IN PRIMARY GRADES (2) LEC. 2. SU. Pr. CTEC 3200. Coreq. CTEC 4200. Laboratory experiences with children 5 through 9 years of age help students relate theory to practice. Course may be repeated for a maximum of 20 credit hours.

CTEC 4920/4923 CLINICAL RESIDENCY (11) AAB. 40. SU. Pr. P/C CTEC 4210 or P/C CTEC 4923. Admission to Clinical Residency. Experience in a setting serving pre-primary or primary-school children with varying abilities. Admission to internship. May count either CTEC 4920 or CTEC 4923.

CTEC 4967 HONORS SPECIAL PROBLEMS (1-3) IND. Pr. Honors College. Individual readings program. Departmental approval. Course may be repeated for a maximum of 3 credit hours.

CTEC 4997 HONORS THESIS (1-3) IND. Pr. Honors College. Departmental approval. Student thesis is finalized in this course. Course may be repeated for a maximum of 3 credit hours.

CTEC 7200/7206 EARLY CHILDHOOD EDUCATION PERSPECTIVE (3) LEC. 3. Historical overview of current issues, trends, and programs in early childhood education. May count either CTEC 7200 or CTEC 7206.

CTEC 7210/7216 ORIGINS OF THOUGHT (3) LEC. 3. Piaget's theories of how thought develops in young children. Comparison of the social and biological roots of thought. May not count either CTEC 7210 or CTEC 7216.

CTEC 7260/7266 PLAY AND EARLY CHILDHOOD EDUCATION (3) LEC. 3. Examination of children's play from a constructivist theoretical perspective and translation of theory into early childhood educational practice. May count either CTEC 7260 or CTEC 7266.

CTEC 7270/7276 THEORY-BASED PROBLEMS IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. In-depth exploration of a problem related to the thought, writing and research that form the theoretical foundations of constructivist approaches in early childhood education. May count either CTEC 7270 or CTEC 7276. Course may be repeated for a maximum of 9 credit hours.

CTEC 7510/7516 RESEARCH STUDIES IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. How to read, review, analyze and interpret significant research studies in early childhood education. May count either CTEC 7510 or CTEC 7516.

CTEC 7520/7526 CURRICULUM AND TEACHING IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. Reappraisal of experiences and content for children by focusing on the nature of the learner and the nature of the knowledge to be learned. May count either CTEC 7520 or CTEC 7526.
CTEC 7530/7536 ORGANIZATION OF PROGRAM IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. Organization, administration, and supervision of early childhood programs. May count either CTEC 7530 or CTEC 7536.

CTEC 7540/7546 EVALUATION OF PROGRAMS IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. Assessment and evaluation of all program components from a constructivist perspective. May count either CTEC 7540 or CTEC 7546.

CTEC 7900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent learning objectives related to the student's area of specialization. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTEC 7910/7916 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. SU. Experience relating theory and practice, usually in a school setting. Departmental approval. May count either CTEC 7910 or CTEC 7916. Course may be repeated for a maximum of 6 credit hours.

CTEC 7970 SPECIAL TOPICS (3-9) AAB. Departmental approval. Cooperative pursuit of selected concepts and theories, normally in small groups. Course may be repeated for a maximum of 9 credit hours.

CTEC 7990/7996 RESEARCH AND THESIS (1-10) MST. Course may be repeated with change in topics.

CTEC 8240/8246 RESEARCH IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. Review, analysis and interpretation of available research with emphasis on designing new research to meet the needs of young children. May count either CTEC 8240 or CTEC 8246.

CTEC 8270/8276 THEORY-BASED PROBLEMS IN EARLY CHILDHOOD EDUCATION (3) LEC. 3. In-depth exploration of problems related to the thought, writings, and research that form the theoretical foundations of constructivist approaches to early childhood education. Master's Degree. May count either CTEC 8270 or CTEC 8276. Course may be repeated for a maximum of 6 credit hours.

CTEC 8720/8726 DESIGNING EARLY CHILDHOOD CURRICULUM (3) LEC. 3. Application of early childhood history, philosophy, program analysis and constructivist theory to the design of early childhood curriculum. Master's Degree. May count either CTEC 8720 or CTEC 8726.

CTEC 8850 CONSTRUCTIVIST INVESTIGATIONS IN EARLY CHILDHOOD SETTINGS (3) LEC. 3. Analysis and interpretation of the design of constructivist investigation. Master's Degree.

CTEC 8950 SEMINAR (3) SEM. 3. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 12 credit hours.

CTEC 8970 SPECIAL TOPICS (3-9) LEC. Departmental approval. Cooperative pursuit of selected concepts and theories, normally in small groups. Course may be repeated for a maximum of 9 credit hours.

CTEC 8980/8986 FIELD PROJECT (1-3) FLD. SU. Students conduct research on an educational problem and defend a field project report. Departmental approval. May not count either CTEC 8980 or CTEC 8986. Course may be repeated for a maximum of 3 credit hours.

CTEC 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Course may be repeated with a change in topic. Course may be repeated with change in topics.

Ed Resrch, Methods, Analysis Courses

ERMA 7100 ADVANCED STUDY OF EDUCATIONAL MEASUREMENT AND EVALUATION (3) LEC. 3. Educational measurement and evaluation with special emphasis on uses of measurement data such as standardized testing and emerging evaluation models such as alternative and authentic assessment.

ERMA 7110 EDUCATIONAL PSYCHOLOGY AND ASSESSMENT (3) LEC. 3. Study of educational psychology as it applies to understanding the teaching-learning process. Measurement and evaluation skills will also be covered.

ERMA 7200/7206 BASIC METHODS IN EDUCATION RESEARCH (3) LEC. 3. Major modes of inquiry in contemporary educational research including experimental, casual comparative, descriptive, qualitative inquiry, and action research models. May count either ERMA 7200 or ERMA 7206.

ERMA 7210/7216 THEORY AND METHODOLOGY OF QUALITATIVE RESEARCH (3) LEC. 3. Major modes of qualitative research, their underlying philosophical assumptions about knowledge, and the major strategies for collecting and analyzing relevant data.
ERMA 7220 APPLIED QUALITATIVE RESEARCH (3) LEC. 3. Pr. (ERMA 7210 or ERMA 7216 or FOUN 7210 or FOUN 7216). Study of detailed strategies of data collection, principles of observation, interviewing, focus groups, recording and coding data, triangulation, strategies for analyzing coded data, and writing up of one's findings.

ERMA 7300/7306 DESIGN AND ANALYSIS IN EDUCATION I (3) LEC. 3. Basic methods of inferential analysis including t-tests, between and within subjects ANOVA, mixed ANOVAs and hierarchical designs as they are utilized in educational research. Departmental approval. May count either ERMA 7300 or ERMA 7306.

ERMA 7310/7316 DESIGN AND ANALYSIS IN EDUCATION II (3) LEC. 3. Pr. (FOUN 7300 or ERMA 7300) or (FOUN 7306 or ERMA 7306). Bivariate and multiple correlation and regression analysis, trend analysis, analysis of covariance, and logistic regression, as they are utilized in educational research. Departmental approval. May count either ERMA 7310 or ERMA 7316.

ERMA 7320/7326 APPLIED QUANTITATIVE RESEARCH (3) LEC. 3. Pr. (ERMA 7200 or ERMA 7206 or FOUN 7200 or FOUN 7206) and (ERMA 7300 or ERMA 7306) or (FOUN 7300 or FOUN 7306). The study and application of detailed strategies of research study designs, data collection, analysis, and reporting of quantitative data. May count either ERMA 7320 or ERMA 7326. Course may be repeated for a maximum of 6 credit hours.

ERMA 7400 MIXED METHODS RESEARCH (3) LEC. 3. Pr. ERMA 7200 or ERMA 7206 or ERMA 7210 or ERMA 7216 or ERMA 7300 or ERMA 7306. Overview and introduction to the use of mixed methods research in the social and behavioral sciences.

ERMA 7410 RESEARCH METHODS FOR SOCIAL JUSTICE AND EQUITY (3) LEC. 3. Pr. ERMA 7300 or ERMA 7306 or ERMA 7210 or ERMA 7216 or ERMA 7400. This course focuses on critical educational research in the scholar-activist model. Through engaging with critical theoretical frameworks, critical empirical research, and research methods, this course prepares students to produce research and scholarship for social justice and equity in education.

ERMA 7900 DIRECTED STUDIES (1-6) IND. SU. Special study in which the student's learning efforts are guided toward desired objectives. Course may be repeated for a maximum of 6 credit hours.

ERMA 7910/7916 PRACTICUM IN EDUCATIONAL RESEARCH, MEASUREMENT, AND EVALUATION (1-3) LEC. 1-3. SU. Pr. (ERMA 7210 or ERMA 7216) and (ERMA 7300 or ERMA 7306). Supervised experience related to area of specialization within educational research, measurement, and evaluation. May count either ERMA 7910 or ERMA 7916. Course may be repeated for a maximum of 6 credit hours.

ERMA 7970/7976 SPECIAL TOPICS IN EDUCATION RESEARCH METHODS & ASSESSMENT (1-6) LEC. Consideration of historical, philosophical, social, psychological, measurement, statistics or research issues, and their impact on education. Course may be with a change in topic. Course may be repeated with change in topics.

ERMA 8100/8106 PROGRAM EVALUATION (3) LEC. 3. Study of various theories and models of curriculum evaluation, methodological issues regarding planning and conducting evaluation studies, reporting and using information from evaluation. May count either ERMA 8100 or ERMA 8106.

ERMA 8120 TEACHER EVALUATION (3) LEC. 3. Analysis of research on teaching, classroom observation methods, teaching portfolios, supervision of teachers, license and certification assessment, ethical and legal consideration, and using information to improve teaching.

ERMA 8200/8206 SURVEY RESEARCH METHODS (3) LEC. 3. Overview of survey research, sampling issues, selection and construction of survey instruments, response effects, issues influencing response rate, reliability and validity of survey data, and analysis of survey data. May count either ERMA 8200 or ERMA 8206.

ERMA 8210/8216 PREP RESEARCH FOR PUBLICATION (3) LEC. 3. SU. Pr. (ERMA 7300 or ERMA 7306) and (ERMA 7310 or ERMA 7316) and ERMA 7210 or (FOUN 7210 or FOUN 7216) or (FOUN 7300 or FOUN 7306) or (FOUN 7310 or FOUN 7316). Preparation of graduate student research for publication or presentation at professional conference through practice, group discussions, peer review and feedback from experienced editorial board members. May count either ERMA 8210 or ERMA 8216.

ERMA 8320/8326 DESIGN AND ANALYSIS IN EDUCATION III (3) LEC. 3. Pr. (FOUN 7310 or ERMA 7310) or (ERMA 7316 or FOUN 7316). Discriminate analysis, MANOVA, canonical correlation, path analysis, exploratory and confirmatory factor analysis, and hierarchical linear modeling as they are utilized in educational research. Departmental approval. May count either ERMA 8320 or ERMA 8326.
ERMA 8330 NON-PARAMETRIC DATA ANALYSIS IN EDUCATION RESEARCH (3) LEC. 3. Pr. FOUN 7300 or FOUN 7306 or ERMA 7300 or ERMA 7306. Departmental approval. Common non-parametric statistical tests appropriate for use with nominal and ordinal data in educational applications. These include rank-order correlation, sign tests, median tests, analysis of variance of ranks and log-linear analysis.

ERMA 8340 A PRACTICAL INTRODUCTION TO STRUCTURAL EQUATION MODELING (3) LEC. 3. Pr. (FOUN 8320 or FOUN 8326 or ERMA 8320 or ERMA 8326). Departmental approval. Theory and practice of structural equation modeling techniques as they are utilized in educational research will be developed by expanding concepts of multiple linear regression and exploratory factor analysis to allow for correlation and causally related latent constructs.

ERMA 8350 ADVANCED MEASUREMENT THEORY (3) LEC. 3. Pr. (FOUN 7300 or ERMA 7300 or ERMA 7306 or FOUN 7306) and (FOUN 7310 or ERMA 7310 or FOUN 7316 or ERMA 7316). Introduction to classical and modern (IRT) test theory, measurement properties, differential item functioning, standard and adaptive testing.

ERMA 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Individualized support and direction for students writing their dissertations. Course may be repeated with change in topics.

Educational Leadership Courses

EDLD 7200/7206 SUPERVISION AND PERSONNEL MANAGEMENT (3) LEC. 3. Supervision theory and practice with responsibility for leadership in the recruitment, evaluation and staff development of employees. May count either EDLD 7200 or EDLD 7206.

EDLD 7210/7216 MULTIPROFESSIONAL LEADERSHIP FOR EQUITY (3) LEC. 3. National, state, and local evidence will inform students' understanding of diversity issues in schools. Theories, concepts and principles of leadership from a multidisciplinary, multiprofessional perspective, will be applied to addressing issues of equity in schools. May count either EDLD 7210 or EDLD 7216.

EDLD 7220/7226 ORGANIZATIONAL AND SCHOOL MANAGEMENT (3) LEC. 3. This course will prepare students in understanding legal and ethical responsibilities of school leaders, fiscal revenues and expenditures of Alabama public schools, using action research and components of a comprehensive, ongoing, planning and budgeting program. May count either EDLD 7220 or EDLD 7226.

EDLD 7330/7336 INTRODUCTION TO CURRICULUM AND INSTRUCTIONAL LEADERSHIP (3) LEC. 3. Principles of curriculum development and the leadership skills required to enact it with emphasis on school settings.

EDLD 7340 OVERVIEW OF CURRICULUM PROCESSES (3) LEC. 3. Curriculum as a field of study; the first course required for the ASC concentration in curriculum; an overview of curriculum history, processes, models, and designs.

EDLD 7500/7506 PRINCIPAL LEADERSHIP (3) LEC. 3. Designed to serve instructional leaders in K-12 settings concerning leadership dispositions and leadership theory important to promoting student success and achievement. May count either EDLD 7500 or EDLD 7506.

EDLD 7510/7516 ACTION RESEARCH AND DATA ANALYSIS (3) LEC. 3. Research methodologies to improve instructional and school-based decision-making action, qualitative, and case study techniques applied to school, classroom, or school-community observation. May count either EDLD 7510 or EDLD 7516.

EDLD 7520/7526 LEADERSHIP AND THE LEARNING ORGANIZATION (3) LEC. 3. Management of schools as learning organizations; issues related to student learning and achievement through attention to organizational components. May count either EDLD 7520 or EDLD 7526.

EDLD 7530/7536 PLANNING AND CONTINUOUS IMPROVEMENT (3) LEC. 3. Development of frameworks for collection, analysis, and use of school data for the improvement of instruction, the learning environment, and student achievement. May count either EDLD 7530 or EDLD 7536.

EDLD 7540/7546 INSTRUCTIONAL AND CURRICULAR LEADERSHIP (3) LEC. 3. Curriculum design and development; areas of study include student needs, organizational mission and goals, data driven improvement, change process, diverse faculty, curriculum alignment tools. May count either EDLD 7540 or EDLD 7546.

EDLD 7550/7556 EDUCATIONAL FINANCE AND RESOURCE MANAGEMENT (3) LEC. 3. Preparation of pro-active leaders in school business affairs; use of action research and components of a comprehensive, ongoing, planning and budgeting program; facilities management. May count either EDLD 7550 or EDLD 7556.
EDLD 7560/7566 EDUCATIONAL SYSTEMS AND COMMUNITIES (3) LEC. 3. Change theory, forecasting, trend analysis and application of these concepts to student achievement and school improvement efforts.

EDLD 7570/7576 LEGAL AND ETHICAL ISSUES (3) LEC. 3. Ethical and legal provisions for education communities: emphasis on the support of and belief in the cultural value of a diverse and educated democratic society. May count either EDLD 7570 or EDLD 7576.

EDLD 7580/7586 SUPERVISION AND PERSONNEL ISSUES IN EDUCATION (3) LEC. 3. Policies and practices related to teacher recruitment, selection, evaluation, and professional development; faculty/staff developmental processes that impact student achievement and school improvement efforts. May count either EDLD 7580 or EDLD 7586.

EDLD 7900 DIRECTED STUDIES (1-9) IND. SU. Independent study directed toward desired objectives. Includes evaluation by professor and student at regular intervals. Course may be repeated for a maximum of 9 credit hours.

EDLD 7910/7916 PRACTICUM (1-6) PRA. Experience closely relating theory and practice, usually conducted in realistic settings. May count either EDLD 7910 or EDLD 7916. Course may be repeated for a maximum of 6 credit hours.

EDLD 7920 ADMINISTRATIVE INTERNSHIP (1-6) AAB/INT. Departmental approval. Opportunities for interns to internalize and employ administrative skills learned during graduate coursework. Course may be repeated for a maximum of 6 credit hours.

EDLD 7930/7936 ADMINISTRATIVE INTERNSHIP/RESIDENCY (1-6) INT. Ongoing field-based experiences in educational administration; observation, participation, and leading with practicing administrators in school systems. Course may be repeated for a maximum of 6 credit hours.

EDLD 7970 SPECIAL TOPICS (1-9) LEC. Variable content for advanced studies in the area of educational leadership. Course may be repeated for a maximum of 9 credit hours.

EDLD 8200/8206 ASSESSMENT AND EVALUATION IN LEARNING ORGANIZATIONS (3) LEC. 3. Study of assessment and evaluation practices that enable learning organizations to use data for decision-making purposes. May count either EDLD 8200 or EDLD 8206.

EDLD 8210/8216 EDUCATIONAL LEADERSHIP: THEORY AND PRACTICE (3) LEC. 3. Educational leadership theory and applications for K-12 settings. May count either EDLD 8210 or EDLD 8216.

EDLD 8220/8226 PERSONAL AND PROFESSIONAL DEVELOPMENT (3) LEC. 3. Includes theoretical frameworks and applications for successful and systematic mentoring of professionals in organizations. May count either EDLD 8220 or EDLD 8226.

EDLD 8230 SYSTEMIC PLANNING AND BUDGETING (3) LEC. 3. Covers the components and implementation of a comprehensive ongoing planning and budgeting program for learning organizations.

EDLD 8240/8246 TRENDS AND ISSUES IN EDUCATIONAL ADMINISTRATION (3) LEC. 3. Trends and issues affecting educational institutions with particular attention to development of administrative procedures to cope with educational changes. May count either EDLD 8240 or EDLD 8246.

EDLD 8250/8256 ORGANIZATIONAL POWER, POLITICS AND POLICY FORMATION (3) LEC. 3. Analysis of social forces, antecedent movements, and political actions affecting organizations. The study of policy development and practice. May count either EDLD 8250 or EDLD 8256.

EDLD 8260/8266 THEORY AND DEVELOPMENT OF ORGANIZATIONS (3) LEC. 3. Theoretical frameworks of educational organizations. May count either EDLD 8260 or EDLD 8266.

EDLD 8270/8276 LEADERSHIP IN FINANCE AND MANAGEMENT (3) LEC. 3. Theory and practice of instructional leadership related to personnel and fiscal management of a school or school district. May count either EDLD 8270 or EDLD 8276.

EDLD 8280 THE SUPERINTENDENCY IN EDUCATION (3) LEC. 3. Theoretical frameworks of educational organizations.

EDLD 8300/8306 CURRICULUM THEORY AND PRACTICE (3) LEC. 3. Advanced course dealing with application of curriculum theories with an emphasis on the impact of philosophical and theoretical beliefs on practice.

EDLD 8310/8316 LEADERSHIP IN THE DEVELOPMENT AND APPLICATION OF CURRICULUM AND THEORY DESIGN (3) LEC. 3. Application of transformative leadership in the design, delivery, and evaluation of curriculum in a wide variety of organizational settings. May count either EDLD 8310 or EDLD 8316.
EDLD 8320/8326 CURRICULUM LEADERSHIP FOR ORGANIZATIONS (3) LEC. 3. Pr. EDLD 7340 and EDLD 8300 and EDLD 8310 or EDLD 8316. For those considering a career in upper level management. Focuses on context, societal, and political influences related to curriculum processes and organizational change. Departmental approval. May count either EDLD 8320 or EDLD 8326.

EDLD 8340/8346 TRANSFORMATIONAL PROCESSES AND ORGANIZATIONAL CHANGE (3) LEC. 3. Organizational and transformational change at personal, interpersonal, and institutional levels. May count either EDLD 8340 or EDLD 8346.

EDLD 8400/8406 ETHICS FOR LEADERS (3) LEC. 3. Theory and practice of ethics and the role of ethical and personal integrity for leaders in the context of educational organizations and the communities they serve. May count either EDLD 8400 or EDLD 8406.

EDLD 8480 INSTITUTIONAL RESEARCH AND DECISION SUPPORT (3) LEC. 3. Components of institutional research and assessment programs that can support the comprehensive planning, decision support, and management needs of the institution.

EDLD 8600/8606 MENTORING FOR CAREER DEVELOPMENT (3) LEC. 3. Assist graduate students in discovering how mentoring can enhance their career/professional development and benefit their organizations. May count either EDLD 8600 or EDLD 8606.

EDLD 8940/8946 DIRECTED FIELD EXPERIENCE IN EDUCATIONAL LEADERSHIP (1-6) FLD. Field-based experience in diverse settings to develop knowledge, skills, and abilities in an area of special interest. Course may be repeated for a maximum of 6 credit hours.

EDLD 8950/8956 SEMINAR (3) SEM. 3. Professional and social integration into doctoral program; enhancement of professional knowledge through structured inquiry, professional dialogue, and reflective thinking. May count either EDLD 8950 or EDLD 8956. Course may be repeated for a maximum of 6 credit hours.

EDLD 8980/8986 PROJECT ANALYSIS (3) LEC. 3. Problem solving, reflective practice and action research and used for continuous school improvement. Provides opportunities to engage in diverse field based research projects. May count either EDLD 8980 or EDLD 8986.

EDLD 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Individualized support and direction for students writing their dissertation. Course may be repeated for a maximum of 10 hours. Course may be repeated with change in topics.

Educational Media Courses

EDMD 3300 UTILIZATION OF INSTRUCTIONAL TECHNOLOGY FOR EDUCATORS (2) LEC. 1. LAB. 2. Basics of current and emerging instructional & communication technologies with primary emphasis on curricular integration. Location, selection, and application of technology resources (WWW, commercially authored software, etc.) for curricular needs with emphasis on developmental stages, learning styles and learning technologies. Limited to majors requiring teaching certification.

EDMD 5000 INSTRUCTIONAL TECHNOLOGY FOR TEACHING AND LEARNING (3) LEC. 3. Introduction to the systematic application of instructional technologies in teaching and learning environments.

EDMD 5100 MEDIA FOR CHILDREN (3) LEC. 3. Examination and evaluation of current literature in print and other formats, including oral literature. Focuses on literary and instructional criteria for selecting and utilizing media.

EDMD 6000/6006 INSTRUCTIONAL TECHNOLOGY FOR TEACHING AND LEARNING (3) LEC. 3. Introduction to the systematic application of instructional technologies in teaching and learning environments. May count either EDMD 6000 or EDMD 6006.

EDMD 6100 MEDIA FOR CHILDREN (3) LEC. 3. Examination and evaluation of current literature in print and other formats, including oral literature. Focuses on literary and instructional criteria for selecting and utilizing media.

EDMD 7000/7006 INSTRUCTIONAL DESIGN AND DEVELOPMENT (3) LEC. 3. Theory, problems, procedures, and standards in the utilization of technology in instructional design and development. May count either EDMD 7000 or EDMD 7006.

EDMD 7010/7016 INSTRUCTIONAL AND INFORMATION TECHNOLOGIES (3) LEC. 3. Evaluation, selection, and use of traditional and current technologies for instruction, information, and administration in learning environments. May count either EDMD 7010 and EDMD 7016.

EDMD 7020/7026 PRINCIPLES OF GRAPHIC DESIGN FOR INSTRUCTION (3) LEC. 3. Principles of graphic design and visual literacy to facilitate the presentation of information. Criteria for graphics utilization examined. May count either EDMD 7020 or EDMD 7026.
EDMD 7030 DIVERSE CHILDREN’S AND YOUNG ADULT LITERATURE: ISSUES, TRENDS, & CONTROVERSIES (3) LEC. 3.
Examination of current issues, trends, and controversies in diverse children’s and young adult literature. Particular focus is given
to literature by and about people from population groups traditionally defined by race, class, ethnicity, religion, ability, gender and
sexuality. Course participants will investigate theoretical perspectives, scholarly discussions, and methodological implications for these
texts.

EDMD 7100/7106 SELECTION AND USE OF MEDIA FOR YOUTH (3) LEC. 3. Evaluation, selection, and use of print and non-print
media for youth, including materials for multi-cultural, special and gifted education. May count either EDMD 7100 or EDMD 7106.

EDMD 7110/7116 BIBLIOGRAPHIC DESCRIPTION, ORGANIZATION AND CONTROL (3) LEC. 3. Principles and procedures of
describing, classifying and organizing resources with applications using new technologies. May count either EDMD 7110 or EDMD
7116.

EDMD 7120/7126 INFORMATION SOURCES, SERVICES AND INSTRUCTION (3) LEC. 3. An overview of information needs,
services, and print and electronic resources; ways to teach information literacy skills. May count either EDMD 7120 or EDMD 7126.

EDMD 7130/7136 ADMINISTRATION OF MEDIA AND TECHNOLOGY SERVICES (3) LEC. 3. Functions of and planning for media
and technology services. Budget, evaluation, facilities, guidelines, legal issues, personnel and policies. May count either EDMD 7130 or
EDMD 7136.

EDMD 7200/7206 APPLIED INSTRUCTIONAL DESIGN (3) LEC. 3. Pr. EDMD 7000 or EDMD 7006. Applying instructional design
skills, students will plan, develop, implement and assess instructional products using appropriate technologies. May count either EDMD
7200 or EDMD 7206.

EDMD 7210/7216 INTEGRATION OF TECHNOLOGY INTO CURRICULUM (3) LEC. 3. Learner competence in integration of
technology into curriculum, including designing and writing software and plans for using computers in instruction. May count either
EDMD 7210 or EDMD 7216.

EDMD 7230/7236 THEORY AND PRACTICE OF DISTANCE EDUCATION (3) LEC. 3. Theories, concepts, and tools that support
distance education, with emphasis on application in design, development, and implementation of distance education instruction. May
count either EDMD 7230 or EDMD 7236.

EDMD 7300/7306 RESEARCH IN INSTRUCTIONAL TECHNOLOGY (3) LEC. 3. Pr. ERMA 7200 or FOUN 7200 or ERMA 7206 or
FOUN 7206. A forum for sharing research perspectives, exploring processes involved in defining research problems and analyzing
research theories, problems, and methods in instructional technology. May count either EDMD 7300 or EDMD 7306.

EDMD 7310/7316 EVALUATION OF MEDIA AND TECHNOLOGY PROGRAMS (3) LEC. 3. Factors contributing to effective media
and technology programs. Understanding of research process and experience with media and technology services assumed. May
count either EDMD 7310 or EDMD 7316.

EDMD 7320/7326 ADVANCED INFORMATION SOURCES AND SERVICES (3) LEC. 3. Electronic databases, advanced searching
techniques, information representation, and the role of the media specialist in networking and creating electronic information sources.
May count either EDMD 7320 or EDMD 7326.

EDMD 7900/7906 DIRECTED STUDIES (1-6) IND. SU. Independent study directed toward desired objectives. Includes evaluation by
professor of student's work accomplished at regular intervals.

EDMD 7910/7916 PRACTICUM (1-6) PRA. SU. Experiences closely relating theory and practice, usually conducted in realistic settings.
Course may be repeated for a maximum of 6 credit hours.

EDMD 7920/7926 CLINICAL RESIDENCY (1-6) INT. SU. Pr. (P/C EDMD 7120 or P/C EDMD 7126) and (P/C EDMD 7130 or P/C
EDMD 7136). Supervised experience in a school media center or other appropriate setting. These experiences, accompanied by
regularly scheduled meetings with the university supervisor, provide evaluation and analysis of the intern experience. May count either
EDMD 7920 or EDMD 7926. Course may be repeated for a maximum of 6 credit hours.

EDMD 7930 TEACHING APPRENTICESHIP (3) SEM. 3. Departmental approval. A structured opportunity for students to apply
educational media concepts and theories in the college classroom. Course may be repeated for a maximum of 6 credit hours.

EDMD 7940/7946 DIRECTED FIELD EXPERIENCE (3-6) FLD. SU. Pr. FOUN 7200 or ERMA 7200 or ERMA 7206 or FOUN 7206.
Field-based study in the area of media and technology. Addresses a scholarly concern of the student and is conducted using valid
research techniques. Course may be repeated for a maximum of 6 credit hours.
EDMD 7970/7976 SPECIAL TOPICS IN INSTRUCTIONAL TECHNOLOGY (3-9) LEC. Opportunity for study of current topics related to the field of instructional technology. Course may be repeated for a maximum of 9 credit hours.

EDMD 7980/7986 FIELD PROJECT (3-6) INT. SU. Pr. ERMA 7200 or ERMA 7206 or FOUN 7200 or FOUN 7206. Field-based study in the area of media and technology. Addresses a scholarly concern of the student and is conducted using valid research techniques.

Educational Psychology Courses

EPSY 7400/7406 ED PSYCH & EDUCATIONAL IMPLICA (3) LEC. 3. Educational psychology theory and research addressing critical problems, challenges, and opportunities in education or other growth-oriented settings. Content ranges from the study of learning to educational evaluation and authentic assessment. May count either EPSY 7400 or EPSY 7406

EPSY 7410 THE INDIVIDUAL IN THE TEACHING-LEARNING PROCESS (3) LEC. 3. The study of human growth, development, and motivation theory and research, including culture, socio-economic status, language, gender and race as a base for understanding individual differences and their sources.

EPSY 7420/7426 LEARNING THEORY AND EDUCATIONAL PRACTICE (3) LEC. 3. Advanced study of learning theory and research with an emphasis on application to effective design, implementation, and evaluation of instruction. May count either EPSY 7420 or EPSY 7426.

EPSY 7430 MOTIVATION AND ACHIEVEMENT (3) LEC. 3. Social, cultural, and psychological antecedents of achievement motivation are examined. This process requires reviewing theories and research, and emphasis is placed on discerning implications for practice and policy.

EPSY 7440 CLASSROOM MANAGEMENT: SKILLS AND REFLECTION (3) LEC. 3. Advanced study and analysis of existing classroom management discipline models including observation research activity.

EPSY 7450 PERSONAL AND PROFESSIONAL DEVELOPMENT AND PERSONALITY DYNAMICS (3) LEC. 3. Survey of different theories and models of personality leading to in-depth study of theories and models most applicable for use in conceiving of and building personal and professional development plans.

EPSY 7900 DIRECTED STUDIES (1-6) IND. SU. Special study in which the student's learning efforts are guided toward desired objectives. Course may be repeated for a maximum of 6 credit hours.

EPSY 7970 SPECIAL TOPICS IN FOUNDATION OF EDUCATION (3-6) LEC. Consideration of historical, philosophical, social, psychological, measurement, statistics or research issues, and their impact on education. Course may be repeated for a maximum of 6 credit hours.

EPSY 8410/8416 LEARNING IN THE SOCIAL CONTEXT (3) LEC. 3. Examination of the complex nature of learning as a socially-shared and individualized process. Topics may include the social construction of knowledge, scaffolded instruction, cognitive apprenticeships, and problem based learning. May count either EPSY 8410 or EPSY 8416.

EPSY 8430 TOPICAL SEMINAR IN LEARNING, COGNITION, AND INSTRUCTION (3) LEC. 3. An intensive and advanced study of research and theory on selected topics. Examples include folk theories of mind and alternative methods of studying thinking.

EPSY 8440 ED PSYCH APPRENT SEMINAR (3) LEC. 3. Focuses on the historical foundations of educational psychology as well as possibilities for future disciplinary development.

EPSY 8540 EDUCATIONAL PSYCHOLOGY RESEARCH APPRENTICESHIP SEMINAR (3) LEC. 3. A structured context for students to begin applying what they have learned from their research methods and statistic courses. Students will design and conduct research that contributes to the educational psychological knowledge base.

EPSY 8640 EDUCATIONAL PSYCHOLOGY LEARNING AND INSTRUCTION APPRENTICESHIP SEMINAR (3) LEC. 3. A structured opportunity for students to begin applying educational psychological concepts and theories in the classroom. Students will study theories of learning and instruction and begin to translate and implement these theories into practice.

EPSY 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Individualized support and direction for students writing their dissertations. Course may be repeated with changes in topic.
Elementary Education Courses

CTEE 3100 INTRODUCTION TO ELEMENTARY EDUCATION (3) LEC. 3. Admission to Teacher Education. Knowledge, skills, and dispositions necessary for elementary education, with emphasis on professional expectations and school structure.

CTEE 4000 FORMATIVE ASSESSMENT IN ELEMENTARY MATHEMATICS (3) LEC. 3. Coreq. CTEE 3100. Examination into mathematics learning trajectories content and ways to assess student thinking in the area of mathematics. Admission to Teacher Education required.

CTEE 4010 CURRICULUM: SOCIAL SCIENCE (4) LEC. 30. LAB. 105. Admission to Teacher Education. Pedagogical content knowledge in the major concepts and modes of inquiry for integrated study of social sciences for elementary learners.

CTEE 4020 CURRICULUM: LANGUAGE ARTS (4) LEC. 30. LAB. 105. Pr. P/C CTEE 4010. Admission to Teacher Education. Pedagogical content knowledge in the major concepts and modes of inquiry for integrated study of language arts for elementary learners.

CTEE 4030 CURRICULUM: NATURAL SCIENCE (4) LEC. 30. LAB. 105. Pr. P/C CTEE 4040. Admission to Teacher Education. Pedagogical content knowledge, principles, and standards in the major concepts and modes of inquiry for integrated study of science for elementary learners.

CTEE 4040 CURRICULUM: MATHEMATICS (4) LEC. 30. LAB. 105. Pr. P/C CTEE 4030. Admission to Teacher Education. Pedagogical content knowledge, principles, and standards in the major concepts and modes of inquiry for integrated study of mathematics for elementary learners.

CTEE 4190 EFFECTIVE CLASSROOM MANAGEMENT IN THE ELEMENTARY SCHOOL (3) LEC. 2. LAB. 2. Admission to Teacher Education. Through exploration, discussion, reflection, and analysis students will study issues pertaining to inclusive/multicultural K-6 classrooms. Issues related to classroom management (e.g. behavior and time management), students with special needs, parent/community relations, legal mandates, technology, planning, and professionalism.

CTEE 4900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Reading, research, or other work undertaken by a student focused on a content area of special interest. The student is directed by a faculty member. Course may be repeated for a maximum of 6 credit hours.

CTEE 4910 PRACTICUM (1-6) AAB/PRA. SU. Departmental approval. Students and faculty cooperatively select an appropriate field experience. Course may be repeated for a maximum of 6 credit hours.

CTEE 4920/4923 CLINICAL RESIDENCY (11) AAB/INT. 11. SU. Pr. P/C CTEE 4950 or P/C CTEE 4953. Admission to Teacher Education. Supervised teaching in a public elementary school accompanied by scheduled discussions to analyze and evaluate the intern's experience. Admission to internship. May count either CTEE 4920 or CTEE 4923.

CTEE 4950/4953 PROFESSIONAL DEVELOPMENT SEMINAR (1-4) AAB/SEM. 1. SU. Pr. P/C CTEE 4920 or P/C CTEE 4923. Admission to Teacher Education. Reflection, exploration, and study of elementary education practices in kindergarten through grade six. May count either CTEE 4950 or CTEE 4953. Course may be repeated for a maximum of 4 credit hours.

CTEE 4967 HONORS SPECIAL PROBLEMS (1-3) IND. Pr. Honors College. Departmental approval. Individual readings program. Course may be repeated for a maximum of 3 credit hours.

CTEE 4970 SPECIAL TOPICS (1-6) AAB/LEC. Departmental approval. Cooperatively selected concepts and theories pursued, normally in small groups. Course may be repeated for a maximum of 6 credit hours.

CTEE 4997 HONORS THESIS (1-3) IND. Pr. Honors College. Departmental approval. The student thesis is finalized in this course. Course may be repeated for a maximum of 3 credit hours.

CTEE 7010/7016 APPROACHES TO TEACHING (3) LEC. 3. Organizational patterns, planning and approaches to instruction in the elementary school.

CTEE 7410/7416 CURRICULUM AND TEACHING IN SOCIAL SCIENCE (GRADES K-6) (3) LEC. 3. Teaching practices and re-appraisal of selecting experiences and content for curriculum improvement in (K-6) social science education. May count either CTEE 7410 or CTEE 7416.
CTEE 7420/7426 CURRICULUM AND TEACHING IN LANGUAGE ARTS (GRADES K-6) (3) LEC. 3. Teaching practices and re-appraisal of selecting experiences and content for curriculum improvement in (K-6) language arts education. May count either CTEE 7420 or CTEE 7426.

CTEE 7430/7436 CURRICULUM AND TEACHING IN NATURAL SCIENCE (GRADES K-6) (3) LEC. 3. Teaching practices and re-appraisal of selecting experiences and content for curriculum improvement in (K-6) natural science education. May count either CTEE 7430 or CTEE 7436.

CTEE 7440/7446 CURRICULUM AND TEACHING IN MATHEMATICS (GRADES K-6) (3) LEC. 3. Teaching practices and re-appraisal of selecting experiences and content for curriculum improvement in (K-6) mathematics education. May count either CTEE 7440 or CTEE 7446.

CTEE 7490 THE ELEMENTARY SCHOOL PROGRAM (3) LEC. 3. Major curriculum areas and teaching practices in the modern elementary school. Implications of research and theory for the total elementary school program.

CTEE 7510/7516 RESEARCH STUDIES IN EDUCATION IN AREAS OF SPECIALIZATION (3) LEC. 3. Pr. CTEE 7420 or CTEE 7426. A review, analysis and interpretation of data with emphasis on designing research to meet the changing needs of the school. May count either CTEE 7510 or CTEE 7516.

CTEE 7530/7536 ORGANIZATION OF PROGRAMS IN ELEMENTARY EDUCATION (3) LEC. 3. Organization and development of basic and supplementary materials for guiding teachers and school systems in improvement of curriculum and teaching practices. May count either CTEE 7530 or CTEE 7536.

CTEE 7540/7546 EVALUATION OF PROGRAMS IN AREAS OF SPECIALIZATION (3) LEC. 3. Evaluation methods and exploration of evaluation literature in areas of specialization. May count either CTEE 7540 or CTEE 7546.

CTEE 7900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study related to student's respective areas of specialization. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTEE 7910/7916 PRACTICUM IN AREA OF SPECIALIZATION (1-6) AAB/PRA. SU. Departmental approval. Provides individual students with experience relating theory and practice, usually in a school setting. Course may be repeated for a maximum of 6 credit hours.

CTEE 7970/7976 SPECIAL TOPICS (1-6) AAB. Departmental approval. Cooperative pursuit of selected concepts and theories, normally in small groups. May count either CTEE 7970 or CTEE 7979. Course may be repeated for a maximum of 6 credit hours.

CTEE 7990/7996 RESEARCH AND THESIS (1-10) MST. Course may be repeated for a maximum of 10 credit hours.

CTEE 8950 SEMINAR (3) SEM. 3. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 12 credit hours.

CTEE 8970 SPECIAL TOPICS (1-6) LEC. Course may be repeated for a maximum of 6 credit hours.

CTEE 8980/8986 FIELD PROJECT (1-10) FLD. SU. Students conduct research on an educational problem and defend a field project report. Departmental approval. May count either CTEE 8980 or CTEE 8986. Course may be repeated for a maximum of 10 credit hours.

CTEE 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Course may be repeated for a maximum of 20 credit hours.

English for Spkrs Other Lang Courses

CTES 5410/5413 LANGUAGE MINORITY STUDENTS K-12 (3) LEC. 3. Non-major course to prepare elementary and secondary teachers to work effectively with English language learners (ELLs). Topics include instructional models for teaching ELLs. May count either CTES 5410 or CTES 6410.

CTES 6410 LANGUAGE MINORITY STUDENTS K-12 (3) LEC. 3. Non-major course to prepare elementary and secondary teachers to work effectively with English language learners (ELLs). Topics include instructional models for teaching ELLs. May count either CTES 5410 or CTES 6410.
CTES 7400/7406 TECHNOLOGY AND MEDIA IN ENGLISH FOR SPEAKERS OF OTHER LANGUAGES EDUCATION (ESOL) (3) LEC. 3. Application of instructional technology in second language instruction, authentic materials in the ESL classroom. May count either CTES 7400 or CTES 7406.

CTES 7420/7426 APPLIED LINGUISTICS IN SECOND LANGUAGE ACQUISITION (3) LEC. 3. Provides basic knowledge of phonetics, morphology, syntax, semantics, pragmatics, psycholinguistics, sociolinguistics and language variation to teach English language learners. May count either CTES 7420 or CTES 7426.

CTES 7460/7466 TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES IN P-12 (3) LEC. 3. Teaching practices and curriculum selection in P-12 ESOL. May count either CTES 7460 or CTES 7466.

CTES 7470/7476 ISSUES IN ENGLISH FOR SPEAKERS OF OTHER LANGUAGES EDUCATION (ESOL) (3) LEC. 3. Examination of central issues in the teaching and learning of ESOL including language policy, language diversity and multiculturalism. May count either CTES 7470 or CTES 7476.

CTES 7480/7486 ASSESSMENT IN ENGLISH FOR SPEAKERS OF OTHER LANGUAGES (ESOL) (3) LEC. 3. Theoretical perspectives on assessment of English Language Learners. Developing, administering and analyzing assessment instruments. May count either CTES 7480 or CTES 7486.

CTES 7920/7926 CLINICAL RESIDENCY (3-9) AAB/INT. SU. Supervised teaching in a K-12 public school accompanied by scheduled discussions to analyze and evaluate the intern's experience. Course may be repeated for a maximum of 9 credit hours.

Foundations of Education Courses

FOUN 3000 DIVERSITY OF LEARNERS AND SETTINGS (3) LEC. 2. LAB. 3. Pr. EDUC 1010. Exploration of how sociopolitical factors and students' diverse identities shape their experiences and opportunities in educational settings and society, with a focus on the interaction between schooling and inequity. Includes a service-learning requirement.

FOUN 3100/3103 CHILD DEVELOPMENT, LEARNING, MOTIVATION AND ASSESSMENT (6) LEC. 5. LAB. 3. Pr. EDUC 3000 or (FOUN 3000 and RSED 3000 or RSED 3003). Admission to Teacher Education. With grades of "C" or better. Cognitive, psychosocial, and moral aspects of child development; integration of development, learning, motivation, assessment, and evaluation in context of instructional planning. May count either FOUN 3100 or FOUN 3103.

FOUN 3110/3113 ADOLESCENT DEVELOPMENT, LEARNING, MOTIVATION AND ASSESSMENT I (3) LEC. 2. LAB. 3. Pr. EDUC 3000 or (FOUN 3000 and RSED 3000 or RSED 3003). Admission to Teacher Education. An integrated approach to the effective instruction of the adolescent learner in context.

FOUN 3120/3123 ADOLESCENT DEVELOPMENT, LEARNING, MOTIVATION AND ASSESSMENT II (3) LEC. 3. Pr. (FOUN 3110 or FOUN 3113 or CTSE 4090 or CTSE 4070 or CTSE 4073) and (EDUC 3000 or FOUN 3000 and RSED 3000 or RSED 3003). Admission to Teacher Education. Study of the adolescent development, learning, motivation, evaluation, and assessment concepts central to effective instruction. May count either FOUN 3120 or FOUN 3123.

FOUN 7000/7006 CULTURAL FOUNDATIONS OF EDUCATION (3) LEC. 3. Advanced study of culture and its impact on the development and structure of education and schooling. Utilizing historical, philosophical, anthropological, and sociological perspectives, contemporary issues regarding the nature and practice of schooling will be examined. May count either FOUN 7000 or FOUN 7006.

FOUN 7010/7016 HISTORY OF AMERICAN EDUCATION (3) LEC. 3. Examination of ideas, actors, and events which influenced the emergence of the formal school system, beginning with early American forms of education. May count either FOUN 7010 or FOUN 7016.

FOUN 7020/7026 SOCIAL AND CULTURAL DIVERSITY IN AMERICAN EDUCATION (3) LEC. 3. Advanced study of education's response to cultural pluralism. The impact of religious, ethnic, social, and racial diversity on the structure of the American public school will be examined. May count either FOUN 7020 or FOUN 7026.

FOUN 7030/7036 MODERNITY, PHILOSOPHY AND THE CURRICULUM (3) LEC. 3. Advanced study of the philosophical assumptions of curriculum development within the context of modernity. May count either FOUN 7030 or FOUN 7036.

FOUN 7040 PHILOSOPHY AND EDUCATIONAL RESEARCH (3) LEC. 3. Advanced philosophical study of educational research within the context of education's professional culture.
FOUN 7050/7056 GLOBAL PERSPECTIVES ON EDUCATION (3) LEC. 3. Exploration of global transformations in education and their implications for equity, diversity, and justice through the lens of comparative and international research.

FOUN 7900 DIRECTED STUDIES (1-6) IND. SU. Special study in which the student's learning efforts are guided toward desired objectives. Course may be repeated for a maximum of 6 credit hours.

FOUN 7930 TEACHING APPRENTICESHIP (3) IND. 3. Departmental approval. A structured opportunity for students to explore social foundations of education concepts and pedagogies in the college classroom. Course may be repeated for a maximum of 6 credit hours.

FOUN 7970/7976 SPECIAL TOPICS IN FOUNDATIONS OF EDUCATION (3-6) LEC. Consideration of historical, philosophical, social, psychological, measurement, statistics or research issues, and their impact on education. Course may be repeated for a maximum of 6 credit hours.

FOUN 8010/8016 MODERN EDUCATION AND COMPARATIVE PERSPECTIVES (3) LEC. 3. Advanced comparative study of selected contemporary educational issues within the American and international urban context.

FOUN 8990 RESEARCH AND DISSERTATION (1-10) DSR. Individualized support and direction for students writing their dissertations. Courses may be repeated for a maximum for 10 hours. Course may be repeated with change in topics.

Higher Ed Administration Courses
HIED 7200 ORGANIZATIONAL ISSUES IN HIGHER EDUCATION (3) LEC. 3. Theory and practice of higher education organizations with emphasis on supervision and management of personnel.

HIED 7210/7216 LEADERSHIP IN HIGHER EDUCATION (3) LEC. 3. Exploration, discussion and application of theories, concepts and principles of leadership applied to higher education organizations. May count either EDLD 7210 or HIED 7210.

HIED 7220 HIGHER EDUCATION MANAGEMENT (3) LEC. 3. Procedures and practices in school educational management.

HIED 7230/7236 STUDENT SERVICES ADMINISTRATION POSTSECONDARY EDUCATION (3) LEC. 3. Organization, administration and evaluation of student personnel services in postsecondary education.

HIED 7240 LEGAL ISSUES IN HIGHER EDUCATION (3) LEC. 3. Constitutional and statutory provisions for education and an analysis of judicial decisions affecting higher education.

HIED 7250 COLLEGE STUDENT DEVELOPMENT (3) LEC. 3. Overview of major developmental theories affecting college students.

HIED 7260 COUNSELING AND ADVISING IN HIGHER EDUCATION (3) LEC. 3. Introduces counseling and advising theory and application for student services professionals in higher education.

HIED 7270/7276 OVERVIEW OF POSTSECONDARY EDUCATION (3) LEC. 3. Overview of the history and evolution of postsecondary education in North America. May count either HIED 7270 or HIED 7276.

HIED 7400 SPORT MARKETING AND PUBLIC RELATIONS (3) LEC. 3. Marketing and public relations of sport organizations as associated with higher education institutions.

HIED 7410 SPORT ETHICS (3) LEC. 3. Covers ethical issues in sport organizations as associated with higher education institutions.

HIED 7900 DIRECTED STUDIES (1-6) IND. SU. Independent study directed toward desired objectives. Includes evaluation by professor and student at regular intervals. Course may be repeated for a maximum of 9 credit hours.

HIED 7910 PRACTICUM (3) PRA. 3. Departmental approval. Experience in the management of specific administrative offices. Course may be repeated for a maximum of 6 credit hours.

HIED 7920 INTERNSHIP (1-6) INT. SU. Departmental approval. Supervised internship experiences in a school, college or other appropriate setting. Evaluation and analysis of the internship experience. Course may be repeated for a maximum of 6 credit hours.

HIED 7970 SPECIAL TOPICS (1-6) LEC. 1-6. Current or advanced topics within area of specialization. Course may be repeated for a maximum of 6 credit hours.

HIED 8200 ASSESSMENT AND EVALUATION IN HIGHER EDUCATION (3) LEC. 3. Study of assessment and evaluation practices that enable learning organizations to use data for decision-making.
HIED 8230 PLANNING AND BUDGETING IN HIGHER EDUCATION (3) LEC. 3. Components and implementation of a comprehensive, ongoing planning and budgeting program in higher education.

HIED 8270 FINANCIAL MANAGEMENT IN HIGHER EDUCATION (3) LEC. 3. Educational finance including revenues, expenditures, cost, budgeting and accounting, and the local, state and federal role in supporting education.

HIED 8480 INSTITUTIONAL RESEARCH IN HIGHER EDUCATION (3) LEC. 3. Components of institutional research and assessment that support comprehensive planning, analysis, decision support and management needs of the higher educational institution. May count either EDLD 8480 or HIED 8480.

HIED 8500 THE PROFESSORIATE (3) LEC. 3. Study of differences and similarities in faculty roles, work, and career paths using various disciplinary and institutional lenses.

HIED 8510 SEMINAR IN COLLEGE TEACHING (3) LEC/SEM. 3. Overview of major issues in higher education and methods of instruction in college teaching. Involves use of experiential learning, group and collaborative activities.

HIED 8950 SEMINAR (3) LEC. 3. Presentation by graduate students of research projects and/or analysis of procedures and finding. Course may be repeated for a maximum of 6 credit hours.

HIED 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Individualized support and direction for students writing their dissertation. Course may be repeated for a maximum of 10 credit hours.

**Interdepartmental Education Courses**

EDUC 1010/1013 ORIENTATION TO TEACHER EDUCATION (0) LEC. 0. SU. Orientation to the teaching profession.

EDUC 5970/5973 SPECIAL TOPICS (1-9) LEC. Opportunity for study of current topics related to the field of education in general. Course may be repeated for a maximum of 9 credit hours.

EDUC 6970 SPECIAL TOPICS (1-9) LEC. Opportunity for study of current topics related to the field of education in general. Course may be repeated for a maximum of 9 credit hours.

**Kinesiology Courses**

KINE 1100/1103 WELLNESS (2) LEC. 1. LAB. 2. Basic concepts and principles of wellness with laboratory experiences for the self-appraisal of health-related physical fitness. May count either KINE 1100 or KINE 1103.

KINE 2003 PILLARS OF HEALTH: A JOURNEY TO OPTIMAL HEALTH & WELLBEING (3) LAB. 4. Students will learn and apply Mindfulness-Based Stress Reduction (MBSR) techniques and practices that have been shown, scientifically, to reduce stress and act as an aid to many health conditions, or are exacerbated by stress. On-campus labs are required.

KINE 2250/2253 MOTOR DEVELOPMENT ACROSS THE LIFESPAN (2) LEC. 2. Develops understanding and skills concerning the broad concept of motor development across the lifespan. May count either KINE 2250 or KINE 2253.

KINE 2251 MOTOR DEVELOPMENT ACROSS THE LIFESPAN LABORATORY (1) LAB. 2. SU. Pr. KINE 2250 or P/C KINE 2253. Develops understanding and skills concerning the broad concept of motor development across the lifespan.

KINE 2503 SPORT OPTIMIZATION I (3) LEC. 2. LAB. 2. Basic concepts associated with the assessment of sport performance for the purpose of optimization.

KINE 2513 SPORT OPTIMIZATION 2 (3) LEC. 2. LAB. 2. Pr. KINE 2503 or HLHP 2500 or HLHP 2503. Concepts associated with the assessment and interpretation of sport performance for the purpose of optimization.

KINE 2703 HEALTH CRISIS IN CHILDREN AND YOUTH (3) LEC. 3. Explores the scope of the childhood obesity epidemic and the health consequences of being overweight or obese during the pediatric years and long-term implications during adulthood.

KINE 2723 KEEPING KIDS HEALTHY, ACTIVE, AND FIT (3) LEC. 3. Practical and application approach toward developing comprehensive programming that aims to promote physical activity and fitness in preschool- and school-age children.

KINE 2800/2803 INTRODUCTION TO KINESIOLOGY (3) LEC. 3. People, history and programs that have led to the current status of physical education, exercise science and health promotion.
KINE 3003 MEDICAL TERMINOLOGY FOR ALLIED HEALTH PROFESSIONS (3) LEC. 3. Focus on medical terminology/abbreviations used in allied health care and application to health care documentation. Web-based delivery.

KINE 3010/3013 INSTRUCTION AND TECHNOLOGY IN KINESIOLOGY (2) LEC. 1. LAB. 2. Communication skills, instructional strategies and technological competencies related to conveying information in the Kinesiology disciplines. May count either KINE 3010 or KINE 3013.

KINE 3020/3023 SCIENTIFIC FOUNDATIONS OF KINESIOLOGY (4) LEC. 4. Overview of the biomechanical, physiological and psychological foundations of human movement. Core biology. May count either KINE 3020 or KINE 3023.

KINE 3030 INTRODUCTION TO PERSONAL TRAINING (3) LEC. 3. Theoretical knowledge and skills in preparation of national certification in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KINE 3031 INTRODUCTION TO PERSONAL TRAINING LABORATORY (3) LAB. 6. Pr. P/C KINE 3030. Theoretical knowledge and skills in preparation of national certification in personal training. Topics include guidelines for instructing safe, effective, and purposeful exercise, essentials of the client-trainer relationship, conducting health and fitness assessments, and designing and implementing appropriate exercise programming.

KINE 3043 HISTORY OF AMERICAN PHYSICAL CULTURE (3) LEC. 3. Appreciation of the historical and cultural aspects of health, exercise, fitness and sports activities in modern American society.

KINE 3050/3053 CARE AND PREVENTION OF INJURIES (3) LEC. 3. Students will understand how to implement proper procedures in sports medicine care, create/lead emergency action plans, prevent injury/illness occurrence, care for basic injuries/illnesses, and analyze environmental conditions for safety, and provide important information to sports medicine health professionals. May count either KINE 3050 or KINE 3053.

KINE 3100/3103 ADAPTIVE SPORTS (3) LEC. 3. An introduction to various competitive and recreational activities for persons with disabilities. May count either KINE 3100 or KINE 3103.

KINE 3113 PARALYMPIC SPORT (3) LEC. 3. An introduction to the Paralympic Games including the Games development, rules, and current issues related to media, marketing, and social rights.

KINE 3200 SKILLS AND CONCEPTS OF RHYTHMIC ACTIVITIES (3) LEC. 2. LAB. 2. Skillful performance in gymnastics and other rhythmic activities and an understanding of the basic movement concepts in those activities.

KINE 3210 SKILLS AND CONCEPTS OF SPORT (3) LEC. 2. LAB. 2. Skillful performance in games and sports and an understanding of the tactics in those activities. Admission to Teacher Education.

KINE 3230 TEACHING MOTOR SKILLS (3) LEC. 2. LAB. 2. Introduction to motor skills that students learn during their elementary school years in physical education.

KINE 3250 SKILL ACQUISITION FOR SCHOOL-AGED CHILDREN (3) LEC. 2. LAB. 2. Pr. (HLHP 2250 or HLHP 2253 or KINE 2250 or KINE 2253) and (HLHP 3020 or HLHP 3023 or KINE 3020 or KINE 3023). Principles of skill acquisition applied to instructional settings in teaching and coaching.

KINE 3260 PHYSICAL EDUCATION FOR INDIVIDUALS WITH DISABILITIES (3) LEC. 2. LAB. 2. Pr. (KINE 2250 and KINE 2251 or KINE 2253) or (HLHP 2250 or HLHP 2251 or HLHP 2253). Program needs of individuals with disabilities in physical education and physical activity settings.

KINE 3300 INSTRUCTIONAL STRATEGIES IN PHYSICAL EDUCATION (3) LEC. 2. LAB. 2. Pr. HLHP 3010 or HLHP 3013 or KINE 3010 or KINE 3013. Admission to Teacher Education. Instructional and class management strategies appropriate to teach quality elementary and secondary physical education Admission to Teacher Education.

KINE 3400 HEALTH PROMOTION IN THE WORKPLACE (3) LEC. 3. Planning, implementation, evaluation and marketing of health promotion programs.

KINE 3413 REGISTERED YOGA TEACHER LEVEL I (3) LEC. 2. LAB. 2. Basic principles of teaching yoga. Concepts include the poses, breathing, relaxation, meditation and other yoga techniques. Completion of KINE 3413 & KINE 3423 completes a Yoga Teacher Certification.
KINE 3423 REGISTERED YOGA TEACHER LEVEL II (3) LEC. 2. LAB. 2. Pr. KINE 3413 or HLHP 3410 or HLHP 3413. Advanced principles of teaching yoga. Focus on poses, breathing, relaxation, meditation and other yoga techniques. Completion of KINE 3413 and KINE 3423 completes a Yoga Teacher Certification.

KINE 3443 COMPLEMENTARY THERAPIES AND INTEGRATIVE HEALTH (3) DSL. 3. An introduction to complementary therapies and integrative health including the basic concepts, foundation, clinical applications, and scientific evidence of specific holistic therapeutic practices.

KINE 3453 ACUPUNCTURE, ACUPRESSURE AND EXERCISE (3) LEC. 3. A practical approach to the application and implication of acupuncture/acupressure used in conjunction with exercise and other holistic strategies for overall health.

KINE 3620/3623 BIOMECHANICAL ANALYSIS OF HUMAN MOVEMENT (3) LEC. 3. Coreq. KINE 3621. Understanding of anatomical, neuromuscular, and biomechanical principles of human movement. Application of these concepts, as well as methods of motion analysis, will enable the student to evaluate human movement in greater detail.

KINE 3621 BIOMECHANICAL ANALYSIS OF HUMAN MOVEMENT LABORATORY (1) LAB. 2. Coreq. KINE 3620. Laboratory experience focuses on application of knowledge of anatomical, neuromuscular, and biomechanical principles of human movement. Content emphasizes understanding the science of exercise, how to apply and interpret common mechanical measures, and writing about findings using basic scientific writing techniques.

KINE 3650/3653 MOTOR LEARNING AND PERFORMANCE (3) LEC. 3. Coreq. KINE 3651. Understanding of the basic psychological and physiological involved in the learning and control of skillful human movement.

KINE 3651 MOTOR LEARNING AND PERFORMANCE LABORATORY (1) LAB. 2. Coreq. KINE 3650. Lab experience will allow students to gain first-hand experience with modern experimental methods, data collection, and basic analysis tools in motor learning research and develop an understanding of the experience of human research participants in kinesiology research.

KINE 3680/3683 PHYSIOLOGY OF EXERCISE (3) LEC. 3. Departmental approval. Coreq. KINE 3681. Energetics of exercise and physiological responses and adptions of various organ systems (muscular, circulatory, respiratory, etc.) to acute and chronic exercise in different environments.

KINE 3681 PHYSIOLOGY OF EXERCISE LAB (1) LAB. 2. Coreq. KINE 3680. Applying knowledge of basic energy, musculoskeletal, nervous, and cardiovascular systems using various testing procedures. Focus on understanding the science of exercise, interpreting common physiological fitness tests, and how to write about findings using basic scientific writing techniques.

KINE 3820/3823 PRINCIPLES OF SPORT COACHING (3) LEC. 3. Basic principles of sport pedagogy and the conduct of sport training programs. Departmental approval. May count either KINE 3820 or KINE 3823.

KINE 3830 THEORY AND PRACTICE OF SPORTS OFFICIATING (3) LEC. 3. Instruction and practice of officiating a variety of sport activities.

KINE 3843 COACHING THE MENTAL SIDE OF SPORTS (3) LEC. 3. Understand athletes’ psychology and how to provide them with mental skills to enhance their performance in athletics, academics, and life.

KINE 3873 LEGAL AND ILLEGAL SPORTS SUPPLEMENTS (3) LEC. 3. Introductory approach to the safety, efficacy, and legality of popular legal and illegal sports supplements.

KINE 4133 THE NEUROBIOLOGY OF PLAY (3) LEC. 3. This course is an introduction to psychological and neuroscientific research on play and games. We will focus on play behavior in human beings, but will incorporate comparative evidence from play in other animals. Using an interdisciplinary approach, we will draw.

KINE 4200 PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS (4) LEC. 2. LAB. 4. Pr. HLHP 3300. Understanding of the skill theme approach based on skill themes, movement concepts and levels of skill proficiency. Credit will not be given for both KINE 4200 and KINE 4360. Admission to Teacher Education.

KINE 4300 PHYSICAL EDUCATION IN SECONDARY SCHOOLS (4) LEC. 2. LAB. 4. Pr. (KINE 3300 or HLHP 3300 or HLHP 3303). Constructing and implementing appropriate lifetime sports and fitness programs for middle and secondary school students. Admission to Teacher Education.
KINE 4350 TEACHING FOR LIFETIME PHYSICAL ACTIVITY (3) LEC. 2. LAB. 2. Pr. (HLHP 3020 or HLHP 3023 or KINE 3020 or KINE 3023). Admission to Teacher Education. Coreq. KINE 3300. Skills and knowledge to conduct comprehensive fitness education programs in schools. Admission to Teacher Education.

KINE 4360 HEALTH EDUCATION AND PHYSICAL EDUCATION IN ELEMENTARY SCHOOLS (3) LEC. 2. LAB. 2. Admission to Teacher Education. Critical topics in health education and physical education for prospective elementary education teachers. Credit will not be given for both KINE 4360 and KINE 4200. Admission to Teacher Education.

KINE 4400/4403 APPLIED ANATOMY FOR THE ALLIED HEALTH PROFESSIONAL (3) LEC. 3. Study of skeletal anatomy with an applied approach. May count either KINE 4400 or KINE 4403.

KINE 4450/4453 PHYSICAL ACTIVITY AND PUBLIC HEALTH (3) LEC. 3. Departmental approval. Basic principles of epidemiology; health benefits of physical activity; strategies to promote physical activity at the individual and community levels.

KINE 4500 INDIVIDUAL AND GROUP FITNESS INSTRUCTION (3) LEC. 3. Principles of exercise prescription and field assessment techniques to develop, implement and evaluate individual and group exercise programs.

KINE 4560/4563 SPORT TECHNIQUE AND MOVEMENT ANALYSIS (3) LEC. 3. Skills and knowledge for observing, evaluating, and correcting movement patterns. May count either KINE 4560 or KINE 4563.

KINE 4600 STRENGTH DEVELOPMENT (3) LEC. 3. Basic concepts and principles of strength development.

KINE 4620/4623 EXERCISE AND SPORT PSYCHOLOGY (3) LEC. 3. Role of psychological factors in sport, exercise and physical activity.

KINE 4630/4633 STRENGTH AND CONDITIONING PREPARATION (3) LEC. 3. Pr. KINE 4600. Preparation as a National Strength and Conditioning Specialist. May count either KINE 4630 or KINE 4633.

KINE 4640 PHYSICAL CONDITIONING AND SPEED (3) LEC. 3. Basic concepts and principles of physical conditioning and speed.

KINE 4690/4693 CORRECTIVE EXERCISE SPECIALIST PREPARATION (3) LEC. 3. Pr. KINE 3620 and P/C KINE 3621. Preparation for the National Academy of Sports Medicine corrective exercise specialist examination. May count either KINE 4690 or KINE 4693.

KINE 4720 MEASUREMENT AND QUANTITATIVE ANALYSIS IN EXERCISE SCIENCE (3) LEC. 3. Pr. (BIOL 1020 and BIOL 1021 or BIOL 1027) and BIOL 2500 and (CHEM 1030 and CHEM 1031) and PHYS 1500. ((BIOL 1020 grade of C or higher; BIOL 1021, grade of C or higher;) OR BIOL 1027 grade of C or higher;) AND (BIOL 2500, grade of C or higher;) AND (CHEM 1030 - grade of C or higher/CHEM 1031, grade of C or higher;) AND (PHYS 1500, grade of C or higher). Research literature, experimental design and research interpretation in exercise science.

KINE 4780 EXERCISE SCIENCE RESEARCH (3) LEC. 3. Pr. KINE 4760. Development of a research proposal including the introduction, review of literature, methods, experimental design and statistics.

KINE 4860/4863 EXERCISE PROGRAMMING FOR SPECIAL POPULATIONS (3) LEC. 3. Principles of exercise prescription, programming and field assessment techniques to develop, implement and evaluate exercise programs for special populations. May count either KINE 4860 or KINE 4863.

KINE 4880 TRAINING AND CONDITIONING PROGRAMMING (3) LEC. 3. Pr. (KINE 4600 or HLHP 4600 or HLHP 4640) and KINE 4640. Skills and knowledge related to sport specific annual training regimens.

KINE 4900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. In-depth study of specific topics. Course may be repeated for a maximum of 6 credit hours.

KINE 4910 PRACTICUM (1-6) AAB/PRA. SU. Departmental approval. Application of basic concepts to specific work environment. Course may be repeated for a maximum of 6 credit hours.

KINE 4920 CLINICAL RESIDENCY (12) LEC. 12. SU. Pr. KINE 4200 and KINE 4300. Culminating supervised work experience in school settings for K-12 Physical Education. Students must be cleared and approved for Clinical Residency by College of Education criteria.
KINE 4930/4933 PHYSICAL ACTIVITY AND HEALTH INTERNSHIP (1-12) LEC. 1-12. SU. Pr. KINE 5400. Opportunity to explore a particular job or career path within the field, allowing students to apply theory and methodology learned in their undergraduate studies in a work environment under qualified supervision. May count either KINE 4930 or KINE 4933. Course may be repeated for a maximum of 12 credit hours.

KINE 4940/4943 FITNESS, CONDITIONING AND PERFORMANCE INTERNSHIP (1-12) INT. SU. Pr. KINE 4690 or KINE 4693 and KINE 4880. Opportunity to explore a particular job or career path within the field, allowing students to apply theory and methodology learned in their undergraduate studies in a work environment under qualified supervision. Site must be approved by internship coordinator. May count either KINE 4940 or KINE 4943. Course may be repeated for a maximum of 12 credit hours.

KINE 4970/4973 SPECIAL TOPICS (1-3) AAB. Advanced presentation of critical issues in physical education, health promotion or exercise science. Course may be repeated with change in topic. Course may be repeated for a maximum of 3 credit hours.

KINE 4980 UNDERGRADUATE RESEARCH (1-3) IND. Departmental Approval. Directed research within the area of specialty within the School. Course may be repeated for a maximum of 6 credit hours.

KINE 4997 HONORS THESIS (1-3) LEC. Pr. Honors College. Departmental approval. Course may be repeated for a maximum of 3 credit hours.

KINE 5200 RESEARCH PROJECT IN PHYSICAL EDUCATION (3) LEC. 3. Pr. (HLHP 4200 or HLHP 4203 or KINE 4200) and (HLHP 4300 or KINE 4300). Focus on action research in teaching and learning in physical education in schools. May count either KINE 5200 or KINE 6200.

KINE 5250 INSTRUCTIONAL SUPERVISION FOR PHYSICAL EDUCATION (2) LEC. 2. Pr. (HLHP 4200 or HLHP 4203 or KINE 4200) and (HLHP 4300 or KINE 4300). Development of systematic observation systems for providing feedback to teachers and strategies for monitoring progress. May count either KINE 5250 or KINE 6250.

KINE 5300 ADVOCACY IN PHYSICAL EDUCATION (2) LEC. 2. Pr. (HLHP 4200 or HLHP 4203 or KINE 4200) and (HLHP 4300 or KINE 4300). Strategies for development of advocacy programs in physical education. May count either KINE 5300 or KINE 6300.

KINE 5350/5353 ASSESSMENT IN PHYSICAL EDUCATION (3) LEC. 3. Pr. (P/C KINE 4920 or P/C HLHP 4920 or P/C HLHP 4923 or P/C KINE 4923). Admission to Teacher Education. Development of appropriate measurement tools to assess student learning. May count either KINE 5350 or KINE 5353.

KINE 5400 EXERCISE PRESCRIPTION FOR NORMAL AND SPECIAL POPULATIONS (3) LEC. 3. Pr. (HLHP 3680 or KINE 3680). Principles of exercise prescription for normal and special populations with emphasis on specific exercise strategies in elderly, obese, hypertensive and hyperlipidemic populations. May count KINE 5400, KINE 6400, or KINE 6406.

KINE 5500 CLINICAL EXERCISE TESTING (2) LEC. 2. Pr. KINE 3680 and KINE 3681. Coreq. KINE 5501. Concepts in physiological testing, test selection, and interpretation of assessments in normal and special populations for the purpose of exercise prescription and chronic disease risk reduction. CPR certification must be obtained prior to the end of the course. May count either KINE 5500 or KINE 6500.

KINE 5501 CLINICAL EXERCISE TESTING LABORATORY (2) LAB. 2. Pr. KINE 3680 and KINE 3681. Coreq. KINE 5500. Application of concepts in physiological testing, test selection and interpretation of assessments in normal and special populations for the purpose of exercise prescription and chronic disease risk reduction.

KINE 5600 PHYSIOLOGICAL BASIS OF TRAINING AND CONDITIONING (3) LEC. 2. LAB. 2. Pr. (HLHP 3680 or KINE 3680). Physiological adaptations to training and conditioning for optimizing sport performance. May count either KINE 5600 or KINE 6600.

KINE 5820 SPORT MANAGEMENT (3) LEC. 3. This course is designed to give students critical skills in understanding and analyzing a number of social issues as they relate to sport. May count either KINE 5820 or KINE 6820.

KINE 5920 INTERNSHIP (1-12) INT. SU. Departmental approval. Supervised work experiences in schools, fitness or rehabilitation settings. Two hours of work experience per week for each hour course credit. Course may be repeated for a maximum of 12 credit hours.

KINE 6200 RESEARCH PROJECT IN PHYSICAL EDUCATION (3) LEC. 3. Focus on action research in teaching and learning in physical education in schools. May count either KINE 5200 or KINE 6200.
KINE 6250 INSTRUCTIONAL SUPERVISION FOR PHYSICAL EDUCATION (2) LEC. 2. Development of systematic observation systems for providing feedback to teachers and strategies for monitoring progress. May count either KINE 5250 or KINE 6250.

KINE 6300 ADVOCACY IN PHYSICAL EDUCATION (2) LEC. 2. Strategies for development of advocacy programs in physical education. May count either KINE 5300 or KINE 6300.

KINE 6350/6356 ASSESSMENT IN PHYSICAL EDUCATION (3) LEC. 3. Pr. P/C KINE 7920 or P/C HLHP 7920 or P/C HLHP 7926.

KINE 6400/6406 EXERCISE PRESCRIPTION FOR NORMAL AND SPECIAL POPULATIONS (3) LEC. 3. Principles of exercise prescription for normal and special populations with emphasis on specific exercise strategies in elderly, obese, hypertensive and hyperlipidemic populations. May count KINE 5400, KINE 6400, or KINE 6406.

KINE 6500 CLINICAL EXERCISE TESTING (2) LEC. 2. Pr. KINE 3680. Concepts in physiological testing, test selection, and interpretation of assessments in normal and special populations for the purpose of exercise prescription and chronic disease risk reduction. CPR certification must be obtained prior to the end of the course. May count either KINE 5500 or KINE 6500.

KINE 6501 CLINICAL EXERCISE TESTING LABORATORY (2) LAB. 2. Pr. KINE 3680. Coreq. KINE 6500. Learn and practice the skills to perform clinical exercise testing for health and fitness in accordance with American College of Sports Medicine (ACSM).

KINE 6600 PHYSIOLOGICAL BASIS OF TRAINING AND CONDITIONING (3) LEC. 2. LAB. 2. Physiological adaptations to training and conditioning for sport performance. May count either KINE 5600 or KINE 6600.

KINE 6820 SPORT MANAGEMENT (3) LEC. 3. This course is designed to give students critical skills in understanding and analyzing a number of social issues as they relate to sport. May count either KINE 5820 or KINE 6820.

KINE 6920 INTERNSHIP (1-12) IND. SU. Departmental approval. Supervised work experiences in schools, fitness or rehabilitation settings. Course may be repeated for a maximum of 12 credit hours.

KINE 7010 RESEARCH METHODS IN PHYSICAL ACTIVITY (3) LEC. 3. Study of research methods and analysis of current research in physical education, health promotion, and exercise science.

KINE 7180/7186 APPLIED SOCIOLOGICAL ASPECTS OF SPORT AND EXERCISE (3) LEC. 3. Critical examination and application of sociological aspects of sport and exercise in a variety of settings. May count either KINE 7180 or KINE 7186.

KINE 7200 CURRICULUM AND TEACHING IN PHYSICAL EDUCATION (3) LEC. 3. Issues in developing and critiquing curricula in physical education.

KINE 7250 EVALUATION OF PROGRAMS IN PHYSICAL EDUCATION (3) LEC. 3. Development of tools for assessment of student learning and evaluation of physical education programs.

KINE 7260 INDIVIDUALS WITH DISABILITIES IN PHYSICAL EDUCATION (3) LEC. 3. Developing inclusive physical activity programs for children and adolescents with disabilities in physical education.

KINE 7280 NATURALISTIC INQUIRY IN PHYSICAL ACTIVITY SETTINGS (3) LEC. 3. Pr. HLHP 7010 or HLHP 7016 or KINE 7010. Exploration of naturalistic inquiry in physical activity and educational settings.

KINE 7300 CONTENT AND PEDAGOGY IN PHYSICAL EDUCATION (3) LEC. 3. Instructional strategies and content for elementary and secondary physical education.

KINE 7350 ORGANIZATION AND ANALYSIS OF INSTRUCTION IN PHYSICAL EDUCATION (3) LEC. 3. Focus on the teaching-learning process in physical education.

KINE 7380 INTEGRATING CLASSROOM CONCEPTS (3) LEC. 3. Relationship of developmental foundations of young children and programming of physical activities.

KINE 7400/7406 ADVANCED ANATOMICAL PRINCIPLES (3) LEC. 3. Clinically oriented human anatomy experience, designed to provide the student with an applied methodology to interact and utilize anatomical knowledge. May count either KINE 7400 or KINE 7406.

KINE 7420/7426 BIOMECHANICS OF SKILL ANALYSIS: DARTFISH I (3) LEC. 3. Introductory approach to skill analysis as well as the use of the software program Dartfish. May count either KINE 7420 or KINE 7426.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 7430/7436</td>
<td>Biomechanics of Skill Analysis: Dartfish II</td>
<td>3</td>
<td>Pr. KINE 7420 or HLHP 7420 or HLHP 7426 or KINE 7426</td>
<td>Advanced approach to skill analysis as well as the use of the software program Dartfish. May count either KINE 7430 or KINE 7436.</td>
</tr>
<tr>
<td>KINE 7536</td>
<td>Advanced Principles of Strength and Conditioning</td>
<td>3</td>
<td></td>
<td>A review of the material and tools necessary to take the National Strength and Conditioning Association's Certified Strength and Conditioning Specialist (CSCS) Exam.</td>
</tr>
<tr>
<td>KINE 7546</td>
<td>Athletic Movement Enhancement</td>
<td>3</td>
<td></td>
<td>A review of the material and tools necessary to become a National Academy of Sports Medicine Performance Enhancement Specialist.</td>
</tr>
<tr>
<td>KINE 7556</td>
<td>Efficient Movement Strategies</td>
<td>3</td>
<td></td>
<td>A review of the material and tools necessary to become a National Academy of Sports Medicine Corrective Exercise Specialist.</td>
</tr>
<tr>
<td>KINE 7570</td>
<td>Exercise Electrocardiography</td>
<td>3</td>
<td></td>
<td>Electrocardiography from an exercise scientist's perspective; recognition of normal and abnormal electrocardiographic patterns at rest and during exercise.</td>
</tr>
<tr>
<td>KINE 7620/7626</td>
<td>Principles of Biomechanics in Human Movement</td>
<td>3</td>
<td>Pr. (HLHP 7620 or HLHP 7626 or KINE 7620 or HLHP 7626)</td>
<td>Biomechanical principles and laws with applications to human movement in sport, exercise and daily activities. Departmental approval. May count either KINE 7620 or KINE 7626.</td>
</tr>
<tr>
<td>KINE 7650</td>
<td>Advanced Motor Learning and Performance</td>
<td>3</td>
<td></td>
<td>Departmental approval. Theories, experimental studies, and current issues in the acquisition, performance, and retention of motor skills.</td>
</tr>
<tr>
<td>KINE 7660</td>
<td>Biomechanics of Sport Injury and Rehabilitation</td>
<td>3</td>
<td>Pr. (HLHP 7620 or HLHP 7626 or KINE 7620 or HLHP 7626)</td>
<td>Biomechanical properties of the human body as related to injuries and rehabilitation in sport and daily activities.</td>
</tr>
<tr>
<td>KINE 7670</td>
<td>Lab Techniques in Biomechanics</td>
<td>3</td>
<td>Pr. (HLHP 7620 or HLHP 7626 or KINE 7620 or KINE 7626)</td>
<td>Study of equipment and standing practices utilized by a biomechanist in measuring and analyzing motion.</td>
</tr>
<tr>
<td>KINE 7680</td>
<td>Advanced Physiology of Exercise I</td>
<td>3</td>
<td></td>
<td>Departmental approval. Physiological responses to exercise and control of metabolism, the cardiovascular system, and the respiratory system during acute exercise and training.</td>
</tr>
<tr>
<td>KINE 7700</td>
<td>Advanced Physiology of Exercise II</td>
<td>3</td>
<td></td>
<td>Temperature regulation and endocrine response to exercise; physiological responses and adaptations to aerobic training, strength training, and environmental extremes; limiting factors and fatigue in exercise.</td>
</tr>
<tr>
<td>KINE 7710</td>
<td>Lab Techniques in Exercise Physiology</td>
<td>3</td>
<td>Pr. (HLHP 7680 or HLHP 7686 or KINE 7680)</td>
<td>Techniques for measuring and evaluating physical performance.</td>
</tr>
<tr>
<td>KINE 7730</td>
<td>Neuromotor Control</td>
<td>3</td>
<td></td>
<td>Departmental approval. Structure and function of the central and peripheral systems underlying human motor control.</td>
</tr>
<tr>
<td>KINE 7740</td>
<td>Advanced Motor Development</td>
<td>3</td>
<td></td>
<td>Departmental approval. Examination of theoretical and empirical issues in motor development across the life span.</td>
</tr>
<tr>
<td>KINE 7750</td>
<td>Advanced Sport Psychology</td>
<td>3</td>
<td></td>
<td>Departmental approval. Examination of psychological factors that influence athletic performance. Or equivalent.</td>
</tr>
<tr>
<td>KINE 7780</td>
<td>Exercise Motivation and Adherence</td>
<td>3</td>
<td></td>
<td>Theoretical foundations and recent research in exercise motivation and adherence. Or equivalent.</td>
</tr>
<tr>
<td>KINE 7790</td>
<td>Motor Behavior of Individuals with Disabilities</td>
<td>3</td>
<td>Pr. (HLHP 7650 or HLHP 7656 or KINE 7650)</td>
<td>Examination of motor behavior characteristics of individuals with disabilities.</td>
</tr>
<tr>
<td>KINE 7820/7826</td>
<td>Clinical/Non-Clinical Internship in Kinesiology</td>
<td>1-10</td>
<td></td>
<td>Supervised work experience in physical activity, health, fitness, conditioning, performance and rehabilitation settings. This course is for non-teacher education students. May count either KINE 7820 or KINE 7826. Course may be repeated for a maximum of 10 credit hours.</td>
</tr>
<tr>
<td>KINE 7900</td>
<td>Directed Studies</td>
<td>1-3</td>
<td></td>
<td>Departmental approval. In-depth study of specific topics. Course may be repeated for a maximum of 9 credit hours.</td>
</tr>
</tbody>
</table>
KINE 7910 PRACTICUM (1-3) PRA. Departmental approval. Application of concepts to specific work environment. Course may be repeated for a maximum of 6 credit hours.

KINE 7920 INTERNSHIP (1-10) INT. SU. Departmental approval. Supervised work experiences in schools, fitness or rehabilitation settings. Course may be repeated for a maximum of 10 credit hours.

KINE 7930 NON-THESIS RESEARCH PROJECT (1-6) IND. SU. Pr. KINE 7010 or HLHP 7010 or HLHP 7016. Departmental approval. Continuation/completion of a scientific research project that culminates into a written and oral presentation. Course may be repeated for a maximum of 6 credit hours.

KINE 7950 SEMINAR (1-3) SEM. SU. Course may be repeated for a maximum of 3 credit hours.

KINE 7960 SPECIAL PROBLEMS (1-3) IND. SU. Departmental approval. Critical analysis of current and classical research and writings. Course may be repeated for a maximum of 3 credit hours.

KINE 7970 SPECIAL TOPICS (1-3) LEC. Advanced presentation of critical issues in physical education, health promotion, or exercise science. Course may be repeated with change in topic.

KINE 7980 RESEARCH PROJECT IN KINESIOLOGY (1-6) IND. SU. Pr. KINE 7010 or HLHP 7010 or HLHP 7016. Departmental approval. Completion of a scientific research project in Kinesiology that culminates into a written and oral presentation. Course may be repeated for a maximum of 6 credit hours.

KINE 7990 RESEARCH AND THESIS (1-10) IND. Course may be repeated with change in topics.

KINE 8270 EXERCISE GENETICS (3) LEC. 3. This course will describe advanced concepts related to exercise genetics. Examples include how skeletal muscle responds to exercise at the epigenetic, transcriptomic, and proteomic level. Additionally, cutting-edge research topics (e.g., miRNA and retrotransposons) will be discussed in the context of exercise science.

KINE 8300 RESEARCH IN KINESIOLOGY (3) LEC. 3. Examination and evaluation of current research trends within the field of kinesiology.

KINE 8310 SUPERVISION/ADMINISTRATION OF LABS IN KINESIOLOGY (3) LEC. 3. Skills and techniques of the daily management of kinesiology labs. Topics include budgeting, outreach, entrepreneurship, grants, and personnel management.

KINE 8320 RESEARCH MENTORSHIP (3) LEC. 3. Skills and experience in the mentorship of novice researches in the field of Kinesiology.

KINE 8710 SCIENTIFIC COMMUNICATION IN EXERCISE SCIENCE (3) LEC. 3. In-depth analysis of the major formats for scientific communication and the peer-review process in exercise science. Or equivalent.

KINE 8730 NUTRIENT TIMING FOR PERFORMANCE OPTIMIZATION (3) LEC. 3. This course will discuss how Nutrient Timing is important for optimizing endurance- or resistance training adaptations in athletes.

KINE 8750 THREE-DIMENSIONAL ANALYSIS OF HUMAN MOVEMENT (3) LEC. 3. Pr. (HLHP 7620 or HLHP 7620) or KINE 7620 or KINE 7620. Three-dimensional nature of body segments in human movement, with emphasis on data processing and modeling techniques.

KINE 8760 PHYSICAL ACTIVITY EPIDEMIOLOGY (3) LEC. 3. Development of analytic skills to evaluate and/or conduct population-based research related to physical activity and disease.

KINE 8770 NEUROMUSCULAR ASPECTS OF EXERCISE AND TRAINING (3) LEC. 3. Pr. KINE 7680 or HLHP 7680 or HLHP 7686 or departmental approval. Examination of neuromuscular mechanisms that allow humans to perform work, including energy output, neural integration, energy metabolism and adaptations to training.

KINE 8780 BIOCHEMISTRY OF EXERCISE (3) LEC. 3. Pr. (HLHP 7680 or KINE 7680) or HLHP 7686 or departmental approval. Regulation of the metabolic pathways of energy metabolism with emphasis on the energetic response to acute exercise and exercise training.

KINE 8900 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. In-depth study of specific topics. Course may be repeated for a maximum of 9 credit hours.
KINE 8910 PRACTICUM (1-3) PRA. SU. Departmental approval. Application of basic concepts to specific work environments. Course may be repeated for a maximum of 9 credit hours.

KINE 8920 INTERNSHIP (1-10) INT. SU. Departmental approval. Supervised work experiences in schools, fitness and rehabilitation settings. Course may be repeated for a maximum of 10 credit hours.

KINE 8930 DIRECTED FIELD EXPERIENCES (1-10) FLD. SU. Departmental approval. Field studies away from campus. Course may be repeated for a maximum of 10 credit hours.

KINE 8950 SEMINAR (1-3) SEM. SU. Course may be repeated for a maximum of 3 credit hours.

KINE 8960 SPECIAL PROBLEMS (1-3) IND. SU. Course may be repeated for a maximum of 3 credit hours.

KINE 8970 SPECIAL TOPICS (1-3) LEC. Advanced presentation of critical issues in physical education, health promotion, or exercise science. Course may be repeated with change in topic. Course may be repeated with change in topics.

KINE 8980 FIELD PROJECT (1-6) FLD.

KINE 8990 RESEARCH AND DISSERTATION (1-10) DSR. Departmental approval. Field project away from campus. Course may be repeated for a maximum of 9 credit hours. Course may be repeated with change in topics.

CTMD Courses

CTMD 4010 TEACHING MATHEMATICS: MIDDLE SCHOOL (4) LEC. 2. LAB. 4. Admission to Teacher Education. Specific teaching strategies for a comprehensive middle school program grades 4-8.

CTMD 4190 CURRICULUM AND TEACHING IN THE MIDDLE SCHOOL (3) LEC. 2. LAB. 2. Admission to Teacher Education. To introduce and prepare undergraduate education students for the middle school student, middle school teaching, and middle level philosophy while incorporating reflective decision making.

CTMD 4900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study directed at desired objectives. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTMD 4910 PRACTICUM IN MIDDLE SCHOOL EDUCATION (1-6) PRA. SU. Departmental approval. Provides experience relating theory and practice, usually carried on simultaneously. Course may be repeated for a maximum of 6 credit hours.

CTMD 4920/4923 CLINICAL RESIDENCY (11) AAB. 40. SU. Pr. P/C CTSE 4200 or P/C CTSE 4203. Admission to Clinical Residency. Supervised teaching in a public middle or secondary school, abroad, accompanied by scheduled discussions to analyze and evaluate the intern's experience. May count either CTMD 4920 or CTMD 4923.

CTMD 4970 SPECIAL TOPICS (1-4) LEC. Course may be repeated for a maximum of 4 credit hours.

CTMD 7900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study directed toward desired objectives related to the respective areas of specialization. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTMD 7910 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. SU. Departmental approval. Experience relating theory and practice, usually in a school setting. Course may be repeated for a maximum of 6 credit hours.

CTMD 7970 SPECIAL TOPICS (1-6) LEC. Course may be repeated for a maximum of 6 credit hours.

Music Education Courses

CTMU 1010 INTRODUCTION TO MUSIC EDUCATION (0) LAB. 1. Introduction to teaching music.

CTMU 1020/1023 MUSIC EDUCATION LAB I (1) LAB. 3. Development and documentation of general music instructional abilities and dispositions for school and community music educators. Clear background check required.

CTMU 2010/2013 MUSIC EDUCATION LAB II (1) LAB. 3. Development and documentation of vocal or instrumental music instructional abilities and dispositions for school and community music educators. Clear background check required.

CTMU 3040 MUSIC AND RELATED ARTS (4) LEC. 2. LAB. 4. Interdisciplinary instruction appropriate for students’ developmental characteristics which synthesize the content, professional resources, curriculum goals and instructional strategies of music.
CTMU 4900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent reading, research or other work focused on a content area of special interest. The student is directed by a faculty member. Course may be repeated for a maximum of 6 credit hours.

CTMU 4910/4913 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. Admission to Teacher Education. Cooperatively selected field experience. May count either CTMU 4910 or CTMU 4913. Course may be repeated for a maximum of 6 credit hours.

CTMU 4920/4923 CLINICAL RESIDENCY (12) AAB. 40. SU. Admission to Teacher Education. Admission to Clinical Residency. Supervised on-the-job experience in a school or other appropriate setting abroad with regularly scheduled discussions with supervising faculty provide evaluation and analysis of the intern. May count either CTMU 4920 or CTMU 4923.

CTMU 4967 HONORS SPECIAL PROBLEMS (1-3) IND. Pr. Honors College. Departmental approval. Individual readings program. Course may be repeated for a maximum of 3 credit hours.

CTMU 4970 SPECIAL TOPICS IN AREA OF SPECIALIZATION (1-6) LEC. Departmental approval. Cooperatively selected concepts and theories pursued, normally in small groups. Course may be repeated for a maximum of 6 credit hours.

CTMU 4997 HONORS THESIS (1-3) IND. Pr. Honors College. The student's thesis is finalized in this course. Course may be repeated for a maximum of 3 credit hours.


CTMU 5140 SCHOOL AND COMMUNITY VOCAL MUSIC EDUCATION (4) LEC. 3. LAB. 3. Admission to Teacher Education. Musical development and learning of vocalists. Curriculum, methods, and assessment for community and school vocal music. Clear background check required. May count either CTMU 5140 or CTMU 6140.


CTMU 6940 ELEMENTARY/MIDDLE SCHOOL MUSIC METHODS (3) LEC. 3. Methodology, materials, organization and activities for elementary and middle school music programs. Includes professional field experiences in public school music programs. Admission to Alternative Master's Certification Program.

CTMU 6960 SECONDARY MUSIC METHODS (3) LEC. 3. Methodology, materials, organization and activities for secondary music programs. Includes professional field experiences in public school music programs. Admission to Alternative Master's Certification Program.
CTMU 7000/7006 SCHOOL AND COMMUNITY MUSIC (1) LEC. 1. Developing skills, disposition, community, and research planning for graduate students in school and community music. May count either CTMU 7000 or CTMU 7006. Course may be repeated for a maximum of 2 credit hours.

CTMU 7510/7516 RESEARCH STUDIES IN MUSIC EDUCATION (3) RES. 3. Review, analysis and interpretation of available research with emphasis on designing new research to meet the changing needs of school musicians. May count either CTMU 7510 or CTMU 7516.

CTMU 7520/7526 CURRICULUM AND TEACHING IN MUSIC EDUCATION (3) LEC. 3. Teaching practices and evaluation of experiences and content for curriculum improvements. Students develop recommendations for music curriculum. May count either CTMU 7520 or CTMU 7526.

CTMU 7530/7536 ORGANIZATION OF PROGRAM IN MUSIC EDUCATION (3) LEC. 3. Program, organization and development of basic and supplementary materials for guiding teachers, facilities and school systems in continuous improvement of curriculum and teaching practices in music education. May count either CTMU 7530 or CTMU 7536.

CTMU 7540/7546 EVALUATION OF PROGRAM IN MUSIC EDUCATION (3) LEC. 3. Evaluation and investigation of teaching effectiveness including the utilization of human and material resources and the coordination of areas of specialization and issues in evaluation which are unique to music education settings. May count either CTMU 7540 or CTMU 7546.

CTMU 7550/7556 APPLICATIONS OF TECHNOLOGY IN MUSIC EDUCATION (3) LEC. 3. An overview of applications of current technology in music classroom, studios, and offices. May count either CTMU 7550 or CTMU 7556.

CTMU 7560/7566 DIGITAL MEDIA PRODUCTION FOR MUSIC EDUCATION (3) LEC. 3. Current tools, skills, and concepts for creating aural and visual interactive applications. May count either CTMU 7560 or CTMU 7566.

CTMU 7570/7576 MUSIC INSTRUCTION MULTIMEDIA RESEARCH AND DEVELOPMENT (3) LEC. 3. Pr. CTMU 7550 or CTMU 7556. Departmental approval. Current research music instructional technology, design of interactive applications.

CTMU 7580/7586 PSYCHOLOGY OF MUSIC (3) LEC. 3. This course will focus on exploring the musical experience psychological, psycho-acoustic, emotional, anthropological, sociological, and assistance perspectives to better understand how philosophical and practical approaches work in music teaching, learning, and in community settings. May count either CTMU 7580 or CTMU 7586.

CTMU 7900/7906 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study directed toward desired objectives related to student’s respective areas of specialization. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTMU 7910/7916 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. SU. Departmental approval. Experience relating theory and practice, usually in a school setting. Course may be repeated for a maximum of 6 credit hours.

CTMU 7970/7976 SPECIAL TOPICS (1-9) LEC. Departmental approval. Provides an opportunity for graduate students and professors to pursue cooperatively selected topics. Course may be repeated for a maximum of 9 credit hours.

CTMU 7990/7996 RESEARCH AND THESIS (1-10) MST. Course may be repeated with change in topics.

CTMU 8950/8956 SEMINAR (1-3) SEM. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 12 credit hours.

CTMU 8980/8986 FIELD PROJECT (1-6) FLD. SU. Course may be repeated for a maximum of 6 credit hours.

CTMU 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Course may be repeated with change in topics.

Physical Education Courses

PHED 1003 ACTIVE AUBURN (2) LEC. 2. Basic concepts associated with physical activity and the opportunities on campus to engage in health-promoting and wellness activities. Course may be repeated for a maximum of 4 credit hours.

PHED 1023 FRESHMAN FIT (2) LEC. 1. LAB. 2. Basic concepts associated with exercise participation, nutrition, stress reduction and proper sleep. Introduction to campus opportunities for health promoting behaviors.
PHED 1200/1203 CARDIO RESPIRATORY: FITNESS (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of cardio-respiratory functioning. Activities may include, but are not limited to running (jogging) swimming, cycling and aerobic dance. Course may be repeated with a change in topic. Course may be repeated with change in topics.

PHED 1210 CARDIO RESPIRATORY: AEROBIC DANCE (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of cardio-respiratory functioning in aerobic dance.

PHED 1220 CARDIO RESPIRATORY: CIRCUIT TRAINING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of cardio-respiratory functioning in circuit training.

PHED 1230/1233 CARDIO RESPIRATORY: JOGGING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of cardio-respiratory functioning in jogging.

PHED 1240 CARDIO RESPIRATORY: SWIM FOR FITNESS (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of cardio-respiratory functioning in swim for fitness.

PHED 1250 CARDIO RESPIRATORY: WATER AEROBICS (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of cardio-respiratory functioning in water aerobics.

PHED 1263 MILITARY FITNESS FOR EVERYONE (2) LEC. 2. Basics of military-type physical activity training, goal-setting, and fitness principles.

PHED 1300/1303 FITNESS AND CONDITIONING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness. Activities may include, but are not limited to calisthenics and weight training. Course may be repeated with a change in topic. Course may be repeated with change in topics.

PHED 1310 FITNESS: BODYBUILDING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness in bodybuilding.

PHED 1320 FITNESS: LIFETIME ACTIVITY (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness in lifetime activity.

PHED 1330 FITNESS: WEIGHT CONTROL (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness in weight control.

PHED 1340/1343 FITNESS: WEIGHT TRAINING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness in weight training.

PHED 1350 FITNESS WEIGHT TRAINING WOMEN (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness for weight training for women.

PHED 1360 FITNESS: WEIGHT TRAINING II (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with the development and maintenance of general physical fitness in weight training II.

PHED 1383 KETTLEBELL TRAINING (2) LEC. 1. LAB. 1. Introductory approach to kettlebell techniques and kettlebell program development.

PHED 1393 WEIGHT MANAGEMENT (2) LAB. 2. Nutrition and exercise concepts associated with maintaining healthy weight.

PHED 1400 TEAM SPORTS (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific team sport. Team sports may include, but are not limited to, volleyball, basketball and softball. Course may be repeated with change in topic.

PHED 1410 TEAM SPORTS: BASKETBALL (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific team sport.

PHED 1420 TEAM SPORTS: FLAG FOOTBALL (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific team sport.

PHED 1430 TEAM SPORTS: SOCCER (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific team sport.

PHED 1440 TEAM SPORTS: SOFTBALL (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific team sport.
PHED 1450 TEAM SPORTS: VOLLEYBALL (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific team sport.

PHED 1500 INDIVIDUAL SPORTS (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport. Sports may include, but are not limited to tennis, golf and racquetball. Course may be repeated with a change in topic. Course may be repeated with change in topics.

PHED 1510 INDIVIDUAL SPORTS: BOWLING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport.

PHED 1520 INDIVIDUAL SPORTS: GOLF (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport.

PHED 1530 INDIVIDUAL SPORTS: GOLF II (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport.

PHED 1540 INDIVIDUAL SPORTS: RACQUETBALL (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport.

PHED 1550 INDIVIDUAL SPORTS: TENNIS (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport.

PHED 1560 INDIVIDUAL SPORTS: TENNIS II (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific individual sport.

PHED 1600 PERFORMANCE ACTIVITIES (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific performance activity. Activities may include, but are not limited to, dance and gymnastics. Course may be repeated with a change in topic. Course may be repeated with change in topics.

PHED 1610 PERFORM ACTIVITY - PILATES (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific performance activity.

PHED 1620 PERFORMANCE ACTIVITY: KARATE (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific performance activity. Course may be repeated for a maximum of 6 credit hours.

PHED 1630 PERFORMANCE ACTIVITY: TAE KWON DO (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific performance activity.

PHED 1640/1643 PERFORMANCE ACTIVITY: YOGA (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with a specific performance activity.

PHED 1700 AQUATICS: OTHER (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills. Activities may include, but are not limited to, swimming skills instruction, lifeguard training, and scuba diving. When appropriate, successful completion of the course will lead to Red Cross certification or certification by other agencies. Course may be repeated for a maximum of 4 credit hours.

PHED 1710 AQUATICS: BEGINNING KAYAKING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1720 AQUATICS: ADVANCED KAYAKING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1730 AQUATICS: KEELBOAT SAILING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1740 AQUATICS: LIFEGUARD TRAINING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1750 AQUATICS: BEGINNING SWIMMING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1760 AQUATICS: SCUBA (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.
PHED 1770 AQUATICS: WATER SKIING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1780 AQUATICS: ADVANCED WATER SKIING (2) LEC. 1. LAB. 2. Basic concepts and physical activities associated with specific aquatic skills.

PHED 1800 VARSITY MEN’S SPORTS: STRENGTH AND CONDITION (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topic.

PHED 1810 VARSITY MEN’S SPORTS: FOOTBALL (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1820 VARSITY MEN’S SPORTS: BASKETBALL (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1830 VARSITY MEN’S SPORTS: TRACK (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1840 VARSITY MEN’S SPORTS: CROSS COUNTRY (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1850 VARSITY MEN’S SPORTS: SWIMMING AND DIVING (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1860 VARSITY MEN’S SPORTS: GOLF (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1870 VARSITY MEN’S SPORTS: TENNIS (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1880 VARSITY MEN’S SPORTS: BASEBALL (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1900 VARSITY WOMEN’S SPORTS: SOCCER (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1910 VARSITY WOMEN’S SPORTS: GYMNASTICS (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1920 VARSITY WOMEN’S SPORTS: BASKETBALL (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1930 VARSITY WOMEN’S SPORTS: TRACK (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1940 VARSITY WOMEN’S SPORTS: CROSS COUNTRY (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1950 VARSITY WOMEN’S SPORTS: SWIMMING AND DIVING (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1960 VARSITY WOMEN’S SPORTS: GOLF (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1970 VARSITY WOMEN’S SPORTS: TENNIS (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1980 VARSITY WOMEN’S SPORTS: SOFTBALL (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.

PHED 1990 VARSITY WOMEN’S SPORTS: VOLLEYBALL (1) LEC. 1. SU. Skills and training associated with participation in varsity sports. Course may be repeated with change in topics.
PHED 2100 WHEELCHAIR SPORTS FOR EVERYONE (2) LEC. 2. LAB. 1. A physical education class which introduces students to various wheelchair sports.

PHED 2200 SELF DEFENSE FOR WOMEN (1) LEC. 1. The Rape Aggression Defense (RAD) System is a comprehensive program of realistic self-defense tactics and techniques for women that promotes awareness, prevention, risk reduction and risk avoidance with a progression to hands-on training and simulation exercises.

Reading Education Courses

CTRD 1000 CRITICAL READING (2) LEC. 2. Strategies for reading expository text, with emphasis on vocabulary learning and text structures, toward goal of critical evaluation of evidence for authors' main-idea claims.

CTRD 3000 FOUNDATIONS OF LANGUAGE AND LITERACY INSTRUCTION I (3) LEC. 2. LAB. 1. Admission to Teacher Education. Research-based theory and teaching strategies to meet the language and literacy needs of all children, especially at risk of reading difficulties. Includes laboratory teaching experience. May count either CTRD 3000 or CTRD 3710.

CTRD 3010/3013 FOUNDATIONS OF LANGUAGE AND LITERACY INSTRUCTION II (4) LEC. 3. LAB. 3. Admission to Teacher Education. Theoretical foundations of language and literacy development of children and implications for teaching. Clinical, laboratory experiences with children. May count either CTRD 3010, CTRD 3003, or CTRD 3700.

CTRD 4900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent reading, research, or other work focused on a content area of special interest. The student is directed by a faculty member. Course may be repeated for a maximum of 6 credit hours.

CTRD 5003 LANGUAGE AND LITERACY IN THE CONTENT AREAS (3) LEC. 3. Strategies to help fluent readers and English language learners learn content in the disciplines by strategic reading of texts. May count either CTRD 5000, CTRD 5003, CTRD 6000 or CRTD 6006.

CTRD 5030 THE READING OF ADOLESCENTS (3) LEC. 3. Admission to Teacher Education. Reading patterns of adolescents and uses of young adult literature in reading and English language arts programs, grades 6-12.

CTRD 5700 DEVELOPMENTAL READING K-12 (3) LEC. 3. Admission to Teacher Education. Theoretical and research foundations for a balanced approach to reading assessment and instruction, K-12. May count CTRD 5700, CTRD 6700, or CTRD 6706.

CTRD 5710 LITERACY AND INQUIRY IN THE CONTENT AREAS: GRADES 6-12 (3) LEC. 3. Admission to Teacher Education. Strategies to enhance literacy and inquiry for student's content-area learning in the middle and secondary school. May count CTRD 5710, CTRD 6710, or CTRD 6716.

CTRD 6000/6006 LANGUAGE AND LITERACY IN THE CONTENT AREAS (3) LEC. 3. Strategies to help fluent readers and English language learners learn content in the disciplines by strategic reading of texts. May count either CTRD 5000, CTRD 5003, CTRD 6000, or CTRD 6006.

CTRD 6030/6036 THE READING OF ADOLESCENTS (3) LEC. 3. Reading patterns of adolescents and uses of young adult literature in reading and English language arts programs, grades 6-12.

CTRD 6700/6706 DEVELOPMENTAL READING K-12 (3) LEC. 3. Theoretical and research foundations for a balanced approach to reading assessment and instruction, K-12. May count CTRD 5700, CTRD 6700, or CTRD 6706.

CTRD 6710/6716 LITERACY AND INQUIRY IN THE CONTENT AREAS: GRADES 6-12 (3) LEC. 3. Strategies to enhance literacy and inquiry for students' content-area learning in the middle and secondary school. May count CTRD 5710, CTRD 6710, or CTRD 6716.


CTRD 7510/7516 RESEARCH STUDIES IN READING EDUCATION (3) RES. 3. Review, analysis, and interpretation of available research with emphasis on designing new research to meet the changing needs of the school.

CTRD 7520/7526 CURRICULUM AND TEACHING IN READING EDUCATION (3) LEC. 3. Teaching practices and reappraisal of selected experiences and content for curriculum improvement.
CTRD 7530/7536 ORGANIZATION OF PROGRAM IN READING EDUCATION (3) LEC. 3. Program, organization, and development of basic and supplementary materials for guiding teachers, faculties, and school systems in the continuous improvement of curriculum and teaching practices.

CTRD 7540 EVALUATION OF PROGRAM IN READING EDUCATION (3) LEC. 3. Evaluation and investigation of teaching effectiveness with attention to the utilization of human and material resources and the coordination of areas of specialization.

CTRD 7900 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study directed toward desired objectives related to respective areas of specialization. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTRD 7910 PRACTICUM IN AREA OF SPECIALIZATION (1-6) PRA. SU. Departmental approval. Experience relating theory and practice, usually in a school setting. Course may be repeated for a maximum of 6 credit hours.

CTRD 7920/7926 CLINICAL RESIDENCY (1-9) INT. SU. Supervised on-the-job experiences in a school, college or other appropriate setting, accompanied by regularly scheduled, on-campus discussion periods. Departmental approval. May count either CTRD 7920 or CTRD 7926. Course may be repeated for a maximum of 9 credit hours.

CTRD 7970/7976 SPECIAL TOPICS (1-6) LEC. Departmental approval. Provides an opportunity for graduate students and professors to pursue cooperatively selected topics. Course may be repeated for a maximum of 6 credit hours.

CTRD 7990/7996 RESEARCH AND THESIS (1-10) MST. Course may be repeated with change in topic.

CTRD 8950 SEMINAR (3) SEM. 3. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 12 credit hours.

CTRD 8980 FIELD PROJECT (1-10) FLD. SU. Course may be repeated for a maximum of 10 credit hours.

CTRD 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Course may be repeated with change in topics.

Rehabilitation Special Ed Courses

RSED 3000/3003 DIVERSITY AND EXCEPTIONALITY OF LEARNERS (3) LEC. 3. Pr. 2.00 GPA. Exploration of philosophical, social, cultural, and legal factors, and individual characteristics shaping education for individuals with disabilities; and roles/responsibilities of educators in inclusive settings. May count either RSED 3000 or RSED 3003.

RSED 3010/3013 INTRODUCTION TO SPECIAL EDUCATION (3) LEC. 3. Orientation to special education profession including history, philosophy, federal legislation, contemporary issues and national organizations.

RSED 3020 INTRODUCTION TO REHABILITATION (3) LEC. 3. Orientation to the profession including history, philosophy, federal legislation, contemporary issues and national organizations.

RSED 3030 INTRODUCTION TO SPEECH PATHOLOGY IN SPECIAL EDUCATION (3) LEC. 3. Emphasis on the role and function of speech pathologist with respect to best practices in the school setting.

RSED 3100/3103 ASSESSMENT IN EARLY CHILDHOOD SPECIAL EDUCATION (3) LEC. 3. Pr. RSED 3010. Concepts and techniques for developmental screening, evaluation and assessment for young children (ages 3-8) with developmental delays and disabilities. Departmental approval. May count either RSED 3100 or RSED 3103.

RSED 3110/3113 ASSESSMENT: ELIGIBILITY FOR SPECIAL EDUCATION (3) LEC. 3. Selection, administration, scoring and interpretation of standardized aptitude and educational tests used in the field of special education. May count either RSED 3110 or RSED 3113.

RSED 3120 ASSESSMENT IN REHABILITATION (3) LEC. 3. Selection, administration, scoring and interpretation of work sample systems and standardized tests of intelligence, aptitude, achievement, interest, and dexterity used in the field of rehabilitation.

RSED 4010/4013 BEHAVIOR MANAGEMENT IN SPECIAL EDUCATION (3) LEC. 3. Skills to manage the behavior of special education students including behavioral assessment, selection criteria for appropriate intervention strategies and evaluation of intervention effectiveness.

RSED 4100/4103 PROFESSIONAL COMMUNICATION IN REHABILITATION (3) LEC. 3. Theoretical and practical aspects of written and oral communication with rehabilitation and other professionals, clients, and family members.
RSED 4110 SUPPORTED EMPLOYMENT IN REHABILITATION (3) LEC. 3. Historical, legislative, theoretical, research and practical foundation of supported employment.

RSED 4120 INDEPENDENT LIVING SERVICES IN REHABILITATION (3) LEC. 3. The history, legislation and philosophy of the independent living movement and its impact on the quality of life for people with severe disabilities.

RSED 4130 ETHICAL PRACTICES IN REHABILITATION (3) LEC. 3. Departmental approval. Ethical dilemmas that are routinely faced by practitioners in human service occupations.

RSED 4140 ASSESSMENT: PROGRAM PLANNING IN SPECIAL EDUCATION (3) LEC. 3. Coreq. RSED 4920. A framework for understanding the purposes and processes that underlie various forms of educational assessments, with emphasis on application assessment of students with disabilities, and how to use assessment data to inform instructional planning and IEP goal development.

RSED 4900/4903 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. Content focus of study area will be translated into specific objectives with student learning guided by the instructor. Emphasis on exceptional learners. Course may be repeated for a maximum of 3 credit hours.

RSED 4910/4913 PRACTICUM (1-6) PRA. SU. Departmental approval. Practice in educational or community service setting aligned with degree program option. Course may be repeated for a maximum of 6 credit hours.

RSED 4920/4923 CLINICAL RESIDENCY (9) AAB/INT. 9. SU. Comprehensive supervised on-the-job experience in a school, college or community-based setting serving individuals with disabilities. Departmental approval or admission to internship.

RSED 4970/4973 SPECIAL TOPICS (1-3) IND. Departmental approval. Seminar in which upper-level students and professors engage in critical thinking regarding selected concepts, theories, research, and issues germane to the field of disabilities. Course may be repeated for a maximum of 3 credit hours.

RSED 5000/5003 ADVANCED SURVEY OF EXCEPTIONALITY (3) LEC. 3. This course is an advanced study of exceptionality with emphasis upon the educational implications of disability and current issues in special education and rehabilitation. May count RSED 5000, RSED 6000, or RSED 6006.

RSED 5010 MEDICAL ASPECTS OF DISABILITY (3) LEC. 3. Medical terminology, basic body systems, common malfunctions, therapeutic services, restorative techniques, and disability evaluation for different disability groups and the vocational implications of each. May count RSED 5010, RSED 6010, or RSED 6016.

RSED 5020/5023 PSYCHOSOCIAL ASPECTS OF DISABILITY (3) LEC. 3. Theoretical constructs and practical issues for various types of physical, mental, psychiatric, and social disabilities with implications for personal, vocational, social and community adjustment. May count RSED 5020, RSED 6020, or RSED 6026.

RSED 5030 MENTAL RETARDATION (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition and classification of individuals with mental retardation. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5030, RSED 6030, or RSED 6036.

RSED 5040 LEARNING DISABILITIES (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition, and classification of individuals with learning disabilities. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5040, RSED 6040, or RSED 6046.

RSED 5050 BEHAVIOR DISORDER (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition, and classification of individuals with behavior disorders. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5050, RSED 6050, or RSED 6056.

RSED 5060 SEVERE DISABILITIES (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition and classification of individuals with severe levels of disability. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5060, RSED 6060, or RSED 6066.

RSED 5070 MILD DISABILITIES (3) LEC. 3. The purpose of this course is to present the major concepts and issues related to mild disabilities. A variety of topics, ranging from the historical developments in the field to proposed teaching procedures for students, will be discussed. In-depth analysis of selected topics will be accomplished with student presentations and assignments. May count either RSED 5070 or RSED 6070.
<table>
<thead>
<tr>
<th>Course Code</th>
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<tr>
<td>RSED 5100</td>
<td>INFANTS AND TODDLERS WITH DISABILITIES</td>
<td>3</td>
<td>RSED 3010</td>
<td>Historical, legislative, and philosophical basis of early intervention for young children, birth through age two, with special needs and their families. May count RSED 5100, RSED 6100, or RSED 6106.</td>
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<tr>
<td>RSED 5110</td>
<td>CURRICULUM IN EARLY CHILDHOOD SPECIAL EDUCATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Admission to Teacher Education. Procedures for developing, implementing, and monitoring individualized educational programs in natural settings. Admission to Teacher Education. May count RSED 5110, RSED 6110, or RSED 6116.</td>
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<tr>
<td>RSED 5120</td>
<td>CURRICULUM IN ELEMENTARY SPECIAL EDUCATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Functional/developmental approach to the selection, development, implementation, and evaluation of curriculum activities for the collaborative instruction of elementary children with disabilities. May count RSED 5120, RSED 6120, or RSED 6126.</td>
</tr>
<tr>
<td>RSED 5130</td>
<td>CURRICULUM IN SECONDARY SPECIAL EDUCATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Functional/developmental approach to the selection, development, implementation, and evaluation of curriculum materials for the collaborative instruction of secondary students with disabilities. Admission to Teacher Education. May count RSED 5130, RSED 6130, or RSED 6136.</td>
</tr>
<tr>
<td>RSED 5140</td>
<td>CURRICULUM IN SEVERE DISABILITIES</td>
<td>3</td>
<td>RSED 3010</td>
<td>Understanding a functional/developmental approach to selecting, developing, implementing, and evaluating appropriate curriculum activities for instructing students with severe disabilities. May count RSED 5140, RSED 6140, or RSED 6146.</td>
</tr>
<tr>
<td>RSED 5150</td>
<td>ELEMENTARY TEACHING METHODS IN SPECIAL EDUCATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Admission to Teacher Education. Instructional strategies in reading and math for students who have learning and behavior problems. May count RSED 5150, RSED 6150, or RSED 6156.</td>
</tr>
<tr>
<td>RSED 5160</td>
<td>FRAMEWORK FOR COLLABORATION IN K-12</td>
<td>3</td>
<td>RSED 3010</td>
<td>Admission to Teacher Education. Collaborative teaching, consultation, and teaming as a critical best practice in serving students with disabilities. May count RSED 5160, RSED 6160, or RSED 6166.</td>
</tr>
<tr>
<td>RSED 5170</td>
<td>TRANSITION FROM BIRTH TO ADULTHOOD</td>
<td>3</td>
<td>RSED 3010</td>
<td>History, philosophy, models, and definitions of transition with emphasis on practices, programs, and services. May count RSED 5170, RSED 6170, or RSED 6176.</td>
</tr>
<tr>
<td>RSED 5180</td>
<td>INSTRUCTIONAL CLASSROOM MANAGEMENT</td>
<td>3</td>
<td>RSED 3010</td>
<td>This course is designed to provide students with the theoretical basis and the practical application of classroom organizational and instructional classroom management for students with learning and behavioral problems. The focus of this class will be to discuss proactive approaches to instructional classroom management. May count RSED 5180, RSED 6180, or RSED 6186.</td>
</tr>
<tr>
<td>RSED 5190</td>
<td>COMMUNITY-BASED INSTRUCTION AND RELATED SERVICES</td>
<td>3</td>
<td>RSED 3010</td>
<td>Provides an in-depth study of transition programs and practices for youth with disabilities as they transition into adulthood. May count either RSED 6190 or RSED 6196.</td>
</tr>
<tr>
<td>RSED 5200</td>
<td>VOCATIONAL EVALUATION IN REHABILITATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Vocational evaluation and work adjustment techniques and strategies used within the rehabilitation process. May count RSED 5200, RSED 5203, RSED 6200, or RSED 6206.</td>
</tr>
<tr>
<td>RSED 5210</td>
<td>OCCUPATIONAL INFORMATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Identification, location, and use of data resources for job accommodation and modification strategies, labor market surveys, and job placement of persons with disabilities. May count RSED 5210, RSED 6210, or RSED 6216.</td>
</tr>
<tr>
<td>RSED 5220</td>
<td>PLACEMENT SERVICES IN REHABILITATION</td>
<td>3</td>
<td>RSED 3010</td>
<td>Theories, strategies, and techniques for job development, accommodation, modification, and placement of people with disabilities with application skills needed to facilitate employment. May count RSED 5220, RSED 6220, or RSED 6226.</td>
</tr>
<tr>
<td>RSED 5230</td>
<td>REHABILITATION ASSISTIVE TECHNOLOGY</td>
<td>3</td>
<td>RSED 3010</td>
<td>Basic computer literacy; use of commercially available software, and assistive technology for use by persons with disabilities. May count RSED 5230, RSED 6230, or RSED 6236.</td>
</tr>
<tr>
<td>RSED 5340</td>
<td>FOUNDATIONS OF SUBSTANCE USE COUNSELING</td>
<td>3</td>
<td>RSED 3010</td>
<td>Provides knowledge of the nature of substance abuse, drug classification, models of addiction, assessment and diagnosis, treatment, and related issues. May count RSED 5340, RSED 6340, or RSED 6346.</td>
</tr>
<tr>
<td>RSED 6000</td>
<td>ADVANCED SURVEY OF EXCEPTIONALITY</td>
<td>3</td>
<td>RSED 5000</td>
<td>This course is an advanced study of exceptionality with emphasis upon the educational implications of disability and current issues in special education and rehabilitation. May count RSED 5000, RSED 6000, or RSED 6006.</td>
</tr>
</tbody>
</table>
RSED 6010/6016 MEDICAL VOC & PSYCHOSOCIAL ASPECTS OF DISABILITY (3) LEC. 3. An introduction to medical terminology, body systems, common physical and cognitive conditions therapeutic/restorative services, and psychosocial & vocational considerations of various disabilities. May count RSED 6010 or RSED 6016.

RSED 6020/6026 PSYCHOSOCIAL ASPECTS OF DISABILITY (3) LEC. 3. Theoretical constructs and practical issues for various types of physical, mental, psychiatric, and social disabilities with implications for personal, vocational, social and community adjustment. May count RSED 5020, RSED 6020, or RSED 6026.

RSED 6030/6036 MENTAL RETARDATION (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition and classification of individuals with mental retardation. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5030, RSED 6030, or RSED 6036.

RSED 6040/6046 LEARNING DISABILITIES (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition, and classification of individuals with learning disabilities. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5040, RSED 6040, or RSED 6046.

RSED 6050/6056 BEHAVIOR DISORDERS (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition, and classification of individuals with behavior disorders. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5050, RSED 6050, or RSED 6056.

RSED 6060/6066 SEVERE DISABILITIES (3) LEC. 3. Historical perspective, theoretical concepts, etiology, diagnosis, definition, and classification of individuals with severe levels of disability. Educational and rehabilitative approaches and contemporary issues are emphasized. May count RSED 5060, RSED 6060, or RSED 6066.

RSED 6070 MILD DISABILITIES (3) LEC. 3. The purpose of this course is to present the major concepts and issues related to mild disabilities. A variety of topics, ranging from the historical developments in the field to proposed teaching procedures for students, will be discussed. In-depth analysis of selected topics will be accomplished with student presentations and assignments. May count RSED 5070 or RSED 6070.

RSED 6100/6106 INFANTS AND TODDLERS WITH DISABILITIES (3) LEC. 3. Historical, legislative, and philosophical basis of early intervention for young children, birth through age two, with special needs and their families. May count RSED 5100, RSED 6100, or RSED 6106.

RSED 6110/6116 CURRICULUM IN EARLY CHILDHOOD SPECIAL EDUCATION (3) LEC. 3. Procedures for developing, implementing, and monitoring individualized educational programs in natural settings. May count RSED 5110, RSED 6110, or RSED 6116.

RSED 6120/6126 CURRICULUM IN ELEMENTARY SPECIAL EDUCATION (3) LEC. 3. Functional/developmental approach to the selection, development, implementation, and evaluation of curriculum for the collaborative instruction of elementary children with disabilities. May count RSED 5120, RSED 6120, or RSED 6126.

RSED 6130/6136 CURRICULUM IN SECONDARY SPECIAL EDUCATION (3) LEC. 3. Functional/developmental approach to the selection, development, implementation, and evaluation of curriculum materials for the collaborative instruction of secondary students with disabilities. May count RSED 5130, RSED 6130, or RSED 6136.

RSED 6140/6146 CURRICULUM IN SEVERE DISABILITIES (3) LEC. 3. Understanding a functional/developmental approach to selecting, developing, implementing, and evaluating appropriate curriculum activities for instructing students with severe disabilities. May count RSED 5140, RSED 6140, or RSED 6146.

RSED 6150/6156 ELEMENTARY TEACHING METHODS IN SPECIAL EDUCATION (3) LEC. 3. Instructional strategies in reading and math for students who have learning and behavior problems. May count RSED 5150, RSED 6150, or RSED 6156.

RSED 6160/6166 FRAMEWORK FOR COLLABORATION IN K-12 (3) LEC. 3. Collaborative teaching, consultation, and teaming as a critical best practice in serving students with disabilities. May count RSED 5160, RSED 6160, or RSED 6166.

RSED 6170/6176 TRANSITION FROM BIRTH TO ADULTHOOD (3) LEC. 3. History, philosophy, models, and definitions of transition with emphasis on best practices, programs, and services. May count RSED 5170, RSED 6170, or RSED 6176.
RSED 6180/6186 INSTRUCTIONAL CLASSROOM MANAGEMENT (3) LEC. 3. This course is designed to provide students with the theoretical basis and the practical application of classroom organization and instructional classroom management for students with learning and behavioral problems. The focus of this class will be to discuss proactive approaches to instructional classroom management. May count RSED 5180, RSED 6180, or RSED 6186.

RSED 6190/6196 COMMUNITY-BASED INSTRUCTION AND RELATED SERVICES (3) LEC. 3. Provides an in-depth study of transition programs and practices for youth with disabilities as they transition into adulthood. May count either RSED 5190 or or RSED 6196.

RSED 6200/6206 VOCATIONAL EVALUATION IN REHABILITATION (3) LEC. 3. Vocational evaluation and work adjustment techniques and strategies used within the rehabilitation process. May count RSED 5200, RSED 5203, RSED 6200, or RSED 6206.

RSED 6210/6216 OCCUPATIONAL INFORMATION (3) LEC. 3. Identification, location, and use of data resources for job accommodation and modification strategies, labor market surveys, and job placement of persons with disabilities. May count RSED 5210, RSED 6210, or RSED 6216.

RSED 6220/6226 PLACEMENT SERVICES IN REHABILITATION (3) LEC. 3. The course is designed to familiarize students with career theory and methods used by rehabilitation practitioners to analyze and apply vocational techniques to place individuals with disabilities. May count RSED 6220 or RSED 6226.

RSED 6230/6236 REHABILITATION ASSISTIVE TECHNOLOGY (3) LEC. 3. Basic computer literacy; use of commercially available software, and assistive technology for use by persons with disabilities. May count RSED 5230, RSED 6230, or RSED 6236.

RSED 6340/6346 FOUNDATIONS OF SUBSTANCE USE COUNSELING (3) LEC. 3. Provides knowledge of the nature of substance abuse, drug classification, models of addiction, assessment and diagnosis, treatment, and related issues. May count RSED 5340, RSED 6340, or RSED 6346.

RSED 7010/7016 REHABILITATION PROFESSIONS, PROGRAMS AND ETHICS (3) LEC. 3. This course exposes students to the ethics, history and development of the rehabilitation counseling movement inclusive of its legal base, philosophies, concepts, and current socio-political trends. May count either RSED 7010 or RSED 7016.

RSED 7100/7106 ADVANCED ASSESSMENT AND INTERVENTION IN EARLY INTERVENTION (3) LEC. 3. Assessment and intervention strategies for special needs children, birth to age three. Departmental approval. May count either RSED 7100 or RSED 7106.

RSED 7110/7116 ADVANCED ASSESSMENT AND INTERVENTION EARLY CHILDHOOD SPECIAL EDUCATION (3) LEC. 3. Assessment and intervention strategies for special needs children, pre-k through 3rd grade. Departmental approval. May count either RSED 7110 or RSED 7116.

RSED 7120/7126 ADVANCED ASSESSMENT IN SPECIAL EDUCATION (3) LEC. 3. Advanced study of educational tests and procedures for diagnosing special training problems. Departmental approval. May count either RSED 7120 or RSED 7126.

RSED 7130/7136 ADVANCED ASSESSMENT I IN REHABILITATION (3) LEC. 3. Principles, process and techniques used to diagnose vocationally-related assets and liabilities of the individual with disabilities. May count either RSED 7130 or RSED 7136.

RSED 7140 ADVANCED ASSESSMENT II IN REHABILITATION (3) LEC. 3. Pr. RSED 7130 or RSED 7136. Interpretation of vocational evaluation data for prescriptive purposes and communication of that data through report writing and oral communication.

RSED 7150/7156 MULTICULTURAL ASPECTS OF DISABILITIES (3) LEC. 3. Study of three main areas relevant to multicultural competencies and standards for rehabilitation professionals: (a) acquisition of communication skills; (b) attitudes towards ethnic minorities, and (c) knowledge about minority populations. May count either RSED 7150 or RSED 7156.

RSED 7200/7206 ADVANCED INTERVENTION WITH INFANTS AND TODDLERS WITH DISABILITIES (3) LEC. 3. Pr. RSED 7100 or RSED 7106. Administration and on-going management of early intervention programs and service coordination of individualized family service plans and family support. Departmental approval. May count either RSED 7200 or RSED 7206.

RSED 7210/7216 ADVANCED INTERVENTION IN EARLY CHILDHOOD SPECIAL EDUCATION (3) LEC. 3. Pr. RSED 7110 or RSED 7116. Curriculum methods, intervention plans, intervention methods, physical and medical management, environmental and behavioral management, and evaluation of child and family outcomes. Departmental approval. May count either RSED 7210 or RSED 7216.
RSED 7220/7226 ADVANCED TEACHING METHODS IN SPECIAL EDUCATION (3) LEC. 3. Applied study and practice in analyzing, designing, constructing and evaluating teaching sequences and programs with empirical emphasis for design of instructional principles. May count either RSED 7220 or RSED 7226.

RSED 7230/7236 ADVANCED BEHAVIOR MANAGEMENT IN SPECIAL EDUCATION (3) LEC. 3. Provides skills necessary to direct academic and social performance and appropriately manage the behavior of students with special needs. Departmental approval. May count either RSED 7230 or RSED 7236.

RSED 7246/7240 SEMINAR IN REHABILITATION RESEARCH AND DESIGN (3) LEC. 3. Research in rehabilitation counseling, with focus on acquisition of knowledge about traditional and recent developments in research methods, and skill application. May count either RSED 7240 or RSED 7246.

RSED 7300/7306 REHABILITATION COUNSELING TECHNIQUES (3) LEC. 3. Facilitative communication skills and systematic problem solving skills for effective clinical practice. May count either RSED 7300 or RSED 7306.

RSED 7310/7316 PROPRIETARY REHABILITATION (3) LEC. 3. Pr. (RSED 6210 or RSED 6216) and (RSED 7130 or RSED 7136). Vocational rehabilitation in private sector including case management and expert witness for workers compensation, personal injury litigation, and social security. May count either RSED 7310 or RSED 7316.

RSED 7320/7326 INDIVIDUAL COUNSELING APPROACHES IN REHABILITATION COUNSELING (3) LEC. 3. Survey of theoretical approaches involved in individual counseling with an emphasis on persons with disabilities using an eclectic point of view and psycho-educational approach. May count either RSED 7320 or RSED 7326.

RSED 7330/7336 GROUP COUNSELING IN REHABILITATION SETTINGS (3) LEC. 3. Pr. RSED 7320 or RSED 7326. Nature and function of group dynamics in rehabilitation settings including theories of groups, group structure, and psych-educational strategies used with rehabilitation clients. May count either RSED 7330 or RSED 7336.

RSED 7400/7406 CURRICULUM AND TEACHING IN SPECIALIZATION (3) LEC. 3. Curriculum design, content, and materials selection related to teaching practices in areas of specialization (intellectual disability, learning disabilities, behavioral disorders, etc.). RSED 7400 and RSED 7406 may be repeated for a maximum combined total of 6 credit hours.

RSED 7410/7416 PROGRAM IMPLEMENTATION IN SPECIALIZATION (3) LEC. 3. Program organization and development of materials for curriculum improvement and teaching practices in a disability specialization area. RSED 7410 and RSED 7416 may be repeated for a maximum combined total of 6 credit hours.

RSED 7420/7426 RESEARCH IN SPECIALIZATION (3) LEC. 3. Examination and interpretation of applied research in specialization area (intellectual disabilities, learning disabilities, behavioral disorders, etc.). Course may be repeated with a change in research area. May count either RSED 7420 or RSED 7426. Course may be repeated for a maximum of 6 credit hours.

RSED 7430/7436 RESEARCH INTO PRACTICE (3) LEC. 3. Applied opportunities for translating instructional and behavioral research into practice. The course may be repeated with a change in research topic. Departmental approval. May count either RSED 7430 or RSED 7436. Course may be repeated for a maximum of 6 credit hours.

RSED 7440/7446 SEMINAR IN SPECIALIZATION (3) SEM. 3. Departmental approval. Advanced students and professor(s) engage in critical thinking regarding selected concepts, theories, research and issues germane to the field of disabilities. Course may be repeated with change in topics.

RSED 7460/7466 POSITIVE BEHAVIOR SUPPORTS (3) LEC. 3. Evaluating and implementing Positive Behavior Interventions and Supports (PBIS) for students grades PK through 12 in traditional and alternative educational settings. May count either RSED 7460 or RSED 7466.

RSED 7900/7906 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. Content focus of study area will be translated into specific objectives with advanced student learning guided by the instructor. The department's policy is to restrict independent study only for content not covered in RSED's course listing. Course may be repeated for a maximum of 3 credit hours.

RSED 7910/7916 PRACTICUM (1-6) PRA. SU. Departmental approval. Practice in educational or community service setting aligned with degree program option. Course may be repeated for a maximum of 6 credit hours.

RSED 7920/7926 CLINICAL RESIDENCY (1-9) INT. SU. Departmental approval. Comprehensive supervised on-the-job experience in a school, college or community-based setting serving individuals with disabilities. Course may be repeated for a maximum of 12 credit hours.
RSED 7940/7946 ADVANCED THEORIES IN REHABILITATION COUNSELING (3) LEC. 3. Intensive study of advanced theories within rehabilitation counseling, as well as an examination of outcome research relating to the use and application of these theories and techniques. May count either RSED 7940 or RSED 7946.

RSED 7950/7956 EMERGING ADULTHOOD AND TRANSITION IN REHABILITATION (3) LEC. 3. Introduction to the transition process of youth with disabilities from school to adulthood and employment with emphasis on the developmental stage emerging adulthood. May count either RSED 7950 or RSED 7956.

RSED 7980/7986 NON-THESIS PROJECT (1-3) IND. SU. Course may be repeated for a maximum of 10 credit hours.

RSED 7990/7996 RESEARCH AND THESIS (1-10) MST. Departmental approval. The content focus of the study area will be translated into specific objectives with the student learning toward that end, guided by the instructor. In addition to regular meetings with the instructor, the student will be evaluated and graded according to learning performance. The department's policy is to restrict independent study only for content not covered in RSED's course listing. Course may be repeated for a maximum of 10 credit hours.

RSED 8010 DISABILITIES AND RESEARCH METHODS (3) LEC. 3. Departmental approval. History, principles, and methodology of single subject research with emphasis on the various types of research designs applied in rehabilitation and special education.

RSED 8020 DISABILITIES AND APPLIED RESEARCH IN MEASUREMENT (3) LEC. 3. Departmental approval. Classical measurement theory, individual differences determination, constructs related to diagnostic labels, measurement bias and fairness, nature-nurture controversy, and clinical versus statistical inference.

RSED 8030/8036 DISABILITIES AND PROFESSIONAL ISSUES (3) LEC. 3. Critical and contemporary issues regarding disability and its relationship to the leadership roles of professionals in special education and rehabilitation. May count either RSED 8030 or RSED 8036.

RSED 8040 DISABILITIES AND ASSISTIVE TECHNOLOGY (3) LEC. 3. Departmental approval. Adaptive technology for use by persons with disabilities and proficiency in the use of computers and the World Wide Web as they relate to disabilities.

RSED 8050/8056 DISABILITIES AND THE LAW (3) LEC. 3. Departmental approval. Development of rehabilitation and special education laws from a historical, policy, leadership, and advocacy. perspective.

RSED 8060 DISABILITIES AND LIFE SPAN TRANSITIONS (3) LEC. 3. Departmental approval. Advanced study of historical, legal, legislative, philosophical, and service delivery issues and trends with emphasis on research studies and programs.

RSED 8070 PROFESSIONAL SEMINAR (3) LEC. 3. SU. Departmental approval. A series of doctoral seminars devoted to professional technical writing, grant writing, management, and research. Course may be repeated with change in topics.

RSED 8110/8116 ORGANIZATIONAL LEADERSHIP AND CHANGE REHABILITATION (3) LEC. 3. Organizational leadership for the public and private non-profit sectors of rehabilitation emphasizing individual qualities required for successful leadership. Departmental approval. May count either RSED 8110 or RSED 8116.

RSED 8120/8126 MANAGEMENT OF PUBLIC SECTOR ORGANIZATIONS (3) LEC. 3. Objective and analytical perspective of public sector management and organizational leadership skills as it relates to rehabilitation settings. Departmental approval. May count either RSED 8120 or RSED 8126.

RSED 8230 EXAMINING DISABILITY DATABASES (3) LEC. 3. Conducting descriptive and correlational research by using existing publicly available databases in the field of disabilities.

RSED 8900 DIRECTED STUDIES (1-3) IND. SU. Departmental approval. Content focus of study area will be translated into specific objectives with student learning guided by the instructor. Course may be repeated with change in topics.

RSED 8950/8956 SEMINAR (1-3) SEM. Departmental approval. Provides an opportunity for advanced graduate students and professors to pursue cooperatively selected concepts and theoretical formulations. Course may be repeated for a maximum of 9 credit hours.

RSED 8980/8986 NON-THESIS PROJECT (1-10) IND. SU. Departmental approval. May be repeated with change in topic. Provides an opportunity for advanced graduate students to pursue a project of interest. Course may be repeated with change in topics.

RSED 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Departmental approval. Course may be repeated with change in topic.
Secondary Education Courses

CTSE 1020 DEVELOPMENTAL STUDIES: MATHEMATICS (2) LEC. 1. LAB. 2. Departmental approval. Develops mathematics skills conducive to successful college study. Credit counted toward enrollment, but not graduation.

CTSE 1030 DEVELOPMENTAL STUDIES: ENGLISH LANGUAGE ARTS (2) LEC. 1. LAB. 2. SU. Departmental approval. Develops reading/study and composition skills conducive to successful college study. Credit not counted toward graduation. Course may be repeated for a maximum of 4 credit hours.

CTSE 4000 TECHNOLOGY IN SCIENCE EDUCATION (2) LEC. 2. Introduction and application of current and emerging instructional and communication technologies for integration in the secondary science program.


CTSE 4050 CURRICULUM AND TEACHING I: SOCIAL SCIENCE (4) LEC. 2. LAB. 4. Pr. CTSE 4210. Admission to Teacher Education. Application of current educational research and instructional strategies to the design of meaningful social studies instruction and assessment.

CTSE 4060 CURRICULUM AND TEACHING II: SOCIAL SCIENCE (4) LEC. 2. LAB. 4. Pr. CTSE 4050 and CTSE 4210. Admission to Teacher Education. Curriculum decision making and planning for instruction, evaluation, and classroom management.

CTSE 4070/4073 CURRICULUM AND TEACHING I: FOREIGN LANGUAGE (4) LEC. 2. LAB. 4. Admission to Teacher Education. Strategies for teaching foreign language students with a special emphasis on developing good instruction for comprehensible input and emerging speech tasks. May count either CTSE 4070 or CTSE 4073.

CTSE 4080/4083 CURRICULUM AND TEACHING II: FOREIGN LANGUAGE (4) LEC. 2. LAB. 4. Pr. CTSE 4070 or CTSE 4073. Admission to Teacher Education. Teaching strategies based on language acquisition theories that are appropriate for teaching foreign language students. May count either CTSE 4080 or CTSE 4083.

CTSE 4090 CURRICULUM AND TEACHING I: SCIENCE (4) LEC. 2. LAB. 4. Admission to Teacher Education. Planning, teaching strategies, evaluation techniques and classroom management procedures needed to be a successful science teacher.

CTSE 4150 CURRICULUM AND TEACHING I: ENGLISH LANGUAGE ARTS (4) LEC. 2. LAB. 4. Pr. CTSE 5010 and CTSE 5020. Admission to Teacher Education. Teaching the expressive English language arts, writing and speaking, in middle and high school classrooms.

CTSE 4160 CURRICULUM AND TEACHING II: ENGLISH LANGUAGE ARTS (4) LEC. 2. LAB. 4. Pr. CTSE 4150. Admission to Teacher Education. Teaching the receptive English language arts; reading, listening, and viewing; in middle and high school classrooms. Admission to Teacher Education required.

CTSE 4200/4203 MANAGING MIDDLE AND HIGH SCHOOL CLASSROOMS (2) LEC. 2. Pr. P/C CTSE 7920 or P/C CTSE 7926 or P/C CTMU 7920 or P/C CTMU 7926 or (P/C CTM 4920 or P/C CTM 4923) or (P/C CTSE 4920 or P/C CTSE 4923). Admission to Teacher Education. The role of the teacher in classroom management. Methods for developing a positive learning environment. May count either CTSE 4200 or CTSE 4203.

CTSE 4210 SOCIAL SCIENCE CONCEPTS AND METHODS (3) LEC. 3. For pre-service teachers. Organizing social science disciplinary knowledge into an integrated framework that is meaningful, useful, and relevant to high school students. 15 hours in social sciences (2000 level or above).

CTSE 4900/4903 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent reading, research, or other work focused on a content area of special interest. The student is directed by a faculty member. Course may be repeated for a maximum of 6 credit hours.

CTSE 4910/4913 PRACTICUM (1-6) PRA. SU. Departmental approval. Admission to Teacher Education. Cooperatively selected field experience. Course may be repeated for a maximum of 6 credit hours.

CTSE 4920/4923 CLINICAL RESIDENCY (11) AAB. 40. SU. Pr. P/C CTSE 5210 or P/C CTSE 5213 or P/C CTSE 5220 or P/C CTSE 5223 or P/C CTSE 5230 or P/C CTSE 5233 or P/C CTSE 5240 or P/C CTSE 5243 or P/C CTSE 5250 or P/C CTSE 5253 or P/C CTSE 5410. Admission to Teacher Education. Admission to Clinical Residency. Supervised teaching in a public secondary school abroad accompanied by scheduled discussions to analyze and evaluate the intern's experience. May count either CTSE 4920 or CTSE 4923.
CTSE 4967 HONORS SPECIAL PROBLEMS (1-3) IND. SU. Pr. Honors College. Departmental approval. Individual readings program. Course may be repeated for a maximum of 3 credit hours.

CTSE 4970/4973 SPECIAL TOPICS (1-4) LEC. Departmental approval. Cooperatively selected concepts and theories pursued, normally in small groups. Course may be repeated for a maximum of 4 credit hours.

CTSE 4997 HONORS THESIS (1-3) IND. SU. Pr. Honors College. The student thesis is finalized in this course. Course may be repeated for a maximum of 3 credit hours.

CTSE 5000/5003 TECHNOLOGY IN SCIENCE EDUCATION (2) LEC. 2. Introduction and application of current and emerging instructional and communication technologies for integration in the secondary science program. May count either CTSE 5000 or CTSE 6000.

CTSE 5010 LANGUAGE STUDY FOR TEACHERS (3) LEC. 3. Theories of language development and language study applicable to middle and high school classrooms; implications for teaching grammar, usage, dialects, and semantics. Departmental approval. Junior standing. May count either CTSE 5010, CTSE 6010 or CTSE 6016.

CTSE 5020 RHETORIC AND COMPOSITION FOR TEACHERS (3) LEC. 3. Theories of rhetoric and composition applicable to middle and high school classrooms; implications for planning writing curricula, instruction, and assessment/evaluation. May count either CTSE 5020 or CTSE 6020.

CTSE 5040 TECHNOLOGY AND APPLICATIONS IN SECONDARY MATHEMATICS EDUCATION (4) LEC. 2. LAB. 4. Pr. MATH 2660. Use of technological tools to enhance mathematics teaching and learning. May count either CTSE 5040 or CTSE 6040.

CTSE 5100 CURRICULUM AND TEACHING II: SCIENCE (4) LEC. 2. LAB. 4. Pr. CTSE 4090. Admission to Teacher Education. Higher-order reasoning and process skills using state and national standards as guides. Theoretical and applied approaches. May count either CTSE 5100 or CTSE 6100.

CTSE 5210/5213 TEACHER INQUIRY WORKSHOP: PROBLEMS AND POSSIBILITIES (1) LEC. 1. Pr. P/C CTSE 4920 or P/C CTSE 4923. Admission to Clinical Residency. Community of practice for English Language Arts clinical residents to support professional practice through teacher inquiry. May count either CTSE 5210, CTSE 5213, CTSE 6210, or CTSE 6216.

CTSE 5220/5223 CLASS MANAGEMENT AND DISCIPLINE IN FOREIGN LANGUAGE CLASSROOM (1) AAB. 15. Pr. P/C CTSE 4920 or P/C CTSE 4923. Admission to Clinical Residency. Seminar for clinical residents on classroom management in Foreign Language Education. May count either CTSE 5220, CTSE 5223, CTSE 6220 or CTSE 6226.

CTSE 5230/5233 MANAGING MIDDLE AND HIGH SCHOOL CLASSROOM (MATH EDUCATION) (1) AAB. 15. Pr. P/C CTSE 4920 or P/C CTSE 4923. Admission to Clinical Residency. The role of the teacher in mathematics classroom management. Methods for developing a positive learning environment. May count either CTSE 5230, CTSE 5233, CTSE 6230 or CTSE 6236.

CTSE 5240/5243 CLINICAL RESIDENCY SEMINAR IN SCIENCE TEACHING (1) AAB. 15. Pr. P/C CTSE 4920 or P/C CTSE 4923. Admission to Clinical Residency. Seminar for Science Education clinical residents in classroom management, professional development, diversity and equity issues, theory and practice. May count either CTSE 5240, CTSE 5243, CTSE 6240 or CTSE 6246.

CTSE 5250/5253 SEMINAR IN SOCIAL SCIENCE EDUCATION (1) AAB. 15. Pr. P/C CTSE 4920 or P/C CTSE 4923. Admission to Clinical Residency. Best practices for managing secondary social science classrooms and ethically resolving students discipline issues for a positive learning climate for all students. May count either CTSE 5250, CTSE 5253, CTSE 6250 or CTSE 6256.

CTSE 5710 LANGUAGE STUDY FOR TEACHERS (3) LEC. 3. Theories of language development and language study applicable to middle and high school classrooms; implications for teaching grammar, usage, dialects, and semantics. Departmental approval. May count either CTSE 5710 or CTSE 6710.

CTSE 6000/6006 TECHNOLOGY IN SCIENCE EDUCATION (2) LEC. 2. Introduction and application of current and emerging instructional and communication technologies for integration in the secondary science program. May count either CTSE 5000 or CTSE 6000.

CTSE 6010/6016 LANGUAGE STUDY FOR TEACHERS (3) LEC. 3. Theories of language development and language study applicable to middle and high school classrooms; implications for teaching grammar, usage, dialects, and semantics. Departmental approval. May count either CTSE 5010, CTSE 6010 or CTSE 6016.
CTSE 6020 RHETORIC AND COMPOSITION FOR TEACHERS (3) LEC. 3. Theories of rhetoric and composition applicable to middle and high school classrooms; implications for planning writing curricula, instruction, and assessment/evaluation. May count either CTSE 5020 or CTSE 6020.

CTSE 6040 TECHNOLOGY AND APPLICATIONS IN SECONDARY MATHEMATICS EDUCATION (4) LEC. 2. LAB. 4. Use of technological tools to enhance mathematics teaching and learning. May count either CTSE 5040 or CTSE 6040.

CTSE 6060 CURRICULUM AND TEACHING II: SCIENCE (4) LEC. 4, LEC/LLB. 6. Pr. CTSE 4090. Higher-order reasoning and process skills using state and national standards as guides. Theoretical and applied approaches. May count either CTSE 5100 or CTSE 6100.

CTSE 6210/6216 TEACHER INQUIRY WORKSHOP: PROBLEMS AND POSSIBILITIES (1) AAB/SEM. 1. Pr. P/C CTSE 7920 or P/C CTSE 7926. Admission to Clinical Residency. Community of practice for English Language Arts clinical residents to support professional practice through teacher inquiry. May count either CTSE 5210, CTSE 5213, CTSE 6210, or CTSE 6216.

CTSE 6220/6226 CLASS MANAGEMENT AND DISCIPLINE IN FOREIGN LANGUAGE CLASSROOM (1) AAB/SEM. 15. Pr. P/C CTSE 7920 or P/C CTSE 7926. Admission to Clinical Residency. Seminar for clinical residents on classroom management in Foreign Language Education. May count either CTSE 5220, CTSE 5223, CTSE 6220 or CTSE 6226.

CTSE 6230/6236 MANAGING MIDDLE AND HIGH SCHOOL CLASSROOM (MATH EDUCATION) (1) AAB/SEM. 15. Pr. (P/C CTSE 7920 or P/C CTSE 7926). Admission to Clinical Residency. The role of the teacher in mathematics classroom management. Methods for developing a positive learning environment. May count either CTSE 5230, CTSE 5233, CTSE 6230 or CTSE 6236.

CTSE 6240/6246 CLINICAL RESIDENCY SEMINAR IN SCIENCE TEACHING (1) AAB/SEM. 15. Pr. P/C CTSE 7920 or P/C CTSE 7926. Admission to Clinical Residency. Seminar for Science Education clinical residents in classroom management, professional development, diversity and equity issues, theory and practice. May count either CTSE 5240, CTSE 5243, CTSE 6240 or CTSE 6246.

CTSE 6250/6256 SEMINAR IN SOCIAL SCIENCE EDUCATION (1) AAB/SEM. 15. Pr. P/C CTSE 7920 or P/C CTSE 7926. Admission to Clinical Residency. Best practices for managing secondary social science classrooms and ethically resolving students discipline issues for a positive learning climate for all students. May count either CTSE 5250, CTSE 5253, CTSE 6250 or CTSE 6256.

CTSE 6710 LANGUAGE STUDY FOR TEACHERS (3) LEC. 3. Theories of language development and language study applicable to middle and high school classrooms; implications for teaching grammar, usage, dialects, and semantics. May count either CTSE 5710 or CTSE 6710.

CTSE 7000/7006 ORIENTATION TO TEACHING AND LEARNING (1) LEC. 1. Skills, dispositions, community, and research planning for graduate students including preparation of a research proposal. May count either CTSE 7000 or CTSE 7006.

CTSE 7090 INQUIRY METHODS OF SCIENCE TEACHING (4) LEC. 4. Departmental approval. Study and practice of various inquiry based methods for teaching science as new teachers, including demonstration, laboratory, and inquiry projects.

CTSE 7490 THE SECONDARY SCHOOL PROGRAM (3) LEC. 3. Departmental approval. Implications of research and theory for the total secondary school program.

CTSE 7510/7516 RESEARCH STUDIES IN AREA OF SPECIALIZATION (3) LEC. 3. Research methodology, landmark studies, critique and application of research in the area of specialization.

CTSE 7520/7526 CURRICULUM AND TEACHING IN AREA OF SPECIALIZATION (3) LEC. 3. Nature of learners and of knowledge and implications for for building curricula and planning instruction in the area of specialization. May count either CTSE 7520 or CTSE 7526.

CTSE 7530/7536 ORGANIZATION OF PROGRAM IN AREA OF SPECIALIZATION (3) LEC. 3. Program models, components, and standards in the area of specialization. May count either CTSE 7530 or CTSE 7536.

CTSE 7540/7546 EVALUATION OF PROGRAM IN AREA OF SPECIALIZATION (3) LEC. 3. Theoretical perspectives of evaluation and methods of evaluating learners, teachers, and curricula. May count either CTSE 7540 or CTSE 7546.

CTSE 7560 EQUITY ISSUES IN MATHEMATICS EDUCATION (3) LEC. 3. Theories, issues, and pedagogy related to achieving equity in mathematics education.
CTSE 7800/7806 CAPSTONE IN TEACHING AND LEARNING (2) LEC. 2. Development of a unique portfolio based on professional interest and demonstration the ability to foster student achievement through the design, implementation, and assessment of learning activities. May count either CTSE 7800 or CTSE 7806.

CTSE 7900/7906 DIRECTED STUDIES (1-6) IND. SU. Departmental approval. Independent study directed toward desired objectives related to their respective areas of specialization. Includes evaluation at regular intervals by professor and student. Course may be repeated for a maximum of 6 credit hours.

CTSE 7910/7916 PRACTICUM IN AREA OF SPECIALIZATION (1-6) AAB/PRA. SU. Departmental approval. Experience relating theory and practice, usually in a school setting. Course may be repeated for a maximum of 6 credit hours.

CTSE 7920/7926 CLINICAL RESIDENCY (8-11) AAB/INT. 40. SU. Pr. P/C CTSE 6210 or P/C CTSE 6216 or P/C CTSE 6220 or P/C CTSE 6226 or P/C CTSE 6230 or P/C CTSE 6236 or P/C CTSE 6240 or P/C CTSE 6246 or P/C CTSE 6250 or P/C CTSE 6256. Admission to Clinical Residency. Supervised clinical residency experiences in a school, college or other appropriate setting. Evaluation and analysis of the clinical residency experience. Departmental approval. May count either CTSE 7920 or CTSE 7926. Course may be repeated for a maximum of 11 credit hours.

CTSE 7970/7976 SPECIAL TOPICS (1-6) LEC. Departmental approval. Provides an opportunity for the graduate student and professor to pursue selected topics in depth. Course may be repeated for a maximum of 6 credit hours.

CTSE 7990/7996 RESEARCH AND THESIS (1-10) MST. Course may be repeated with change in topics.

CTSE 8950/8956 SEMINAR (1-3) SEM. Selected concepts and theoretical formulations of common interest. Course may be repeated for a maximum of 12 credit hours.

CTSE 8980/8986 FIELD PROJECT (1-3) FLD. SU. Departmental approval. Students review literature pertaining to a problem they have identified in their own practice, form hypotheses, plan intervention, collect data, analyze and interpret results, write summary of the project following approved guidelines, and orally defend the results of their project. Course may be repeated for a maximum of 3 credit hours.

CTSE 8990/8996 RESEARCH AND DISSERTATION (1-10) DSR. Course may be repeated with change in topics.