SPECIAL EDUCATION & COMMUNICATIVE DISORDERS

Graduate College of Education
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Chair: Yvonne Bui
Advisors: Program faculty in Department of Special Education and Communicative Disorders

Program Scope and Career Outlook
The programs in the Department of Special Education & Communicative Disorders include professional preparation in special education and communicative disorders. The programs include preparation for specialists who may work in schools, clinical settings, or community agencies with individuals with disabilities. Resources of education, psychology, counseling, and other human service related fields are utilized.

Communicative Disorders
Bachelor of Arts in Communicative Disorders
The Bachelor of Arts in Communicative Disorders is designed as preparation for graduate study in speech-language pathology or audiology. A master's degree is required to become certified as a Speech-Language Pathologist and a doctoral degree (AUD) is required to become an Audiologist. While the B.A. degree in CD does not qualify the student to practice speech-language pathology or audiology, there are related fields open to the B.A. graduate that include employment as a teacher's assistant, classroom aide, child development worker, and speech-language pathology assistant with additional intern experience beyond the undergraduate degree. In addition, the BA degree in CD is a strong foundation for a number of graduate programs in special education, education, rehabilitation counseling, and related fields.

Master of Science in Communicative Disorders
The academic and clinical program leading to the Master of Science in Communicative Disorders meets requirements of pre-professional training set forth by the American Speech-Language-Hearing Association for the Certificate of Clinical Competence and by the California Board of Medical Quality Assurance for a license in speech pathology. The program is approved by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA) in speech-language pathology.

Special Education
Minor in Special Education
The Minor in Special Education provides undergraduate students with an overview of the field of special education. An interdisciplinary program of required and elective courses ensures that students are exposed to a variety of courses pertaining to disability in our society. Competencies attained by students completing this minor would be of both a theoretical and practical nature and would stimulate student interest in occupations serving individuals with disabilities. Direct contact with individuals with disabilities would help the student to determine whether their interest seems to be a feasible choice for a future career.

Master of Arts in Special Education
The Master of Arts in Special Education is an individually designed program in an area of emphasis. This degree emphasizes research and leadership skills within a select program of study. The degree prepares individuals for employment in education in public and private agencies serving people with disabilities, and in other related human service fields. Programs within the department provide students with an opportunity to learn from, and participate in, on-going research, demonstration, training, and clinical projects conducted by faculty. Areas of emphasis include autism, early childhood special education, mild/moderate disabilities, moderate/severe disabilities, orientation and mobility, orthopedic impairments, and visual impairments.

Special Education Graduate Certificates
Certificate in the Autism Spectrum
This graduate level certificate is designed to prepare highly qualified professionals to meet the unique needs of learners on the autism spectrum in diverse settings. Through participation in coursework that includes embedded field experiences, candidates will acquire applied knowledge of current theory, research, and practice to guide them in working with individuals on the autism spectrum from early childhood to adulthood. Candidates may include educators, therapists, advocates, family members, adults who identify on the autism spectrum, and others from a variety of fields and backgrounds.

Certificate in Early Childhood Special Education
The Certificate in Early Childhood Special Education offers an opportunity for students enrolled in professional programs or practicing professionals in education to pursue additional training in working with young children with special needs (from birth to five years) and their families. Further, the trans-disciplinary approach to this training makes the program equally valuable for related professionals, such as physical and occupational therapists, speech therapists, nurses, psychologists, and social workers. Graduates of the program may hold jobs in a variety of public and private early childhood education settings that include schools, hospitals, and government agencies.

Certificate in the Autism Spectrum
This graduate level certificate is designed to prepare highly qualified professionals to provide Augmentative and Alternative Communication (AAC) services for children, youth and adults with complex communication needs (CCN) in school and community settings within the context of an interdisciplinary team. Through participation in coursework that includes concurrent field experiences, candidates will acquire working knowledge of best practice in assessment and intervention to support communication through application of AAC systems for children, youth and adults to access learning, socialization and vocational opportunities in society. Graduate students who are enrolled in master’s degrees in Communicative Disorders, Special Education and related fields in addition to practicing professionals in health, human service and educational fields at the post-baccalaureate level may complete the certificate program.

Doctor of Philosophy in Education: Concentration in Special Education
Graduate study leading to the Doctor of Philosophy degree with a concentration in Special Education is offered jointly with the University of California, Berkeley (http://www.berkeley.edu).
The program provides preparation for people interested in a leadership role in research, policy, advocacy, curriculum development, administration and supervision, and teacher education. Check with the department for specific application procedures for each campus: spedcd@sfsu.edu, spedcd.sfsu.edu (http://spedcd.sfsu.edu).

Admission to Graduate Programs and Certificates

The following two sections provide a general introduction to admission requirements and Written English Proficiency requirements for graduate programs in the Department of Special Education & Communicative Disorders. Details regarding the joint doctoral program appears in the section titled “Education Doctoral Studies.”

A minimum 3.0 GPA is required for admission to certificates and master’s degrees, including the fields of special education and communicative disorders. Applications are available from the Department of Special Education & Communicative Disorders, (415) 338-1161, spedcd.sfsu.edu (http://spedcd.sfsu.edu)

Certificate applicants must first be eligible in accordance with all university requirements as outlined in the Certificate Programs section of this Bulletin. This same section includes university program guidelines and procedures to be followed in filing for the award of the certificate when it is completed.

The following University requirements apply to graduates in the Master of Arts in Special Education and the Master of Science in Communicative Disorders.

Written English Proficiency Requirement
Each graduate student must demonstrate the ability to write English correctly and effectively at the graduate level. To assure that each graduate student has the required proficiency in written English, two distinct assessments are made by the major department: Level One and Level Two.

Level One
Applicants will be required to submit evidence of one of the following as part of their application for admission to our M.S. in Communicative Disorders or M.A. in Special Education:

- Score of at least 3.5/6.0 on the GRE Analytical Writing Test or GMAT Analytic Writing Assessment.
- Score of at least 4.5/6.0 on the essay test of the paper-based [PBT] TOEFL (a minimum score of 24/30 on the Writing section of the Internet-based test [iBT] TOEFL).
- Score of at least 6.5/9.0 on the IELTS writing test, or a concordant score on the Pearson Test of English.
- Passing status score of at least 220 on the CSET Writing Skills Test. (CBEST Writing does not fulfill this requirement.)

Applicants who do not meet this requirement may be denied admission. If all other areas of the application are strong, a faculty member may choose to file a petition with Graduate Admissions to request conditional admission. If conditional admission is granted, the student will need to pass one of the tests listed above in the first semester of admission.

Level Two
Master of Science in Communicative Disorders
Students will be required to complete one of the following plans of the approved culminating experience, following advancement to candidacy:

    Plan A

C D 884 Advanced Diagnosis in Communicative Disorders 3
Master’s Comprehensive Written Examination

Plan B
C D 898 Master’s Thesis in Communicative Disorders (with 3
Oral Defense of Thesis)

Plan C
SPED 895 Field Study: Special Education 3
C D 884 Advanced Diagnosis in Communicative Disorders 3

Master of Arts in Special Education
Students will be required to complete one of the following options of the approved culminating experience, following advancement to candidacy:

Option I
SPED 894 Creative Work Project in Special Education 3
SPED 895 Field Study: Special Education 3
SPED 898 Master’s Thesis (Oral Defense of Thesis) 3

Option II
SPED 881 Advanced Research Seminar in Special 3
Education (and Master’s Comprehensive Written
Examination)

Option III
By advisement, two elective graduate seminars, which will reflect critical analysis of literature and application of research; and Master’s Comprehensive Written Examination.

Continuing Enrollment Requirement M.S. in Communication Disorders & M.A. in Special Education
Students admitted to a master’s degree program during or after fall 2008:
If a student enrolls in one of the Culminating Experience courses, such as SPED 898 or C D 898, SPED 895 or SPED 894 to complete their master's degree, and does not finish their study by the end of the semester, or by the following semester (grace semester), they need to enroll in at least one course during each successive semester until they complete their culminating experience and a grade is entered by their committee chair.

Following a grace semester, if there is a break in enrollment before the culminating experience is completed, the student upon return will be required to retroactively enroll for semesters in between and must continuously enroll every semester thereafter until completed.

If a student is completing the master’s comprehensive written examination during the semester of graduation and has completed all degree requirements, they also need to enroll in at least one course.

Students in one of the above situations can enroll in the following low cost course available to meet this Continuous Enrollment Requirement

- EDUC 499 College of Extended Learning
- Registration is online by going to http://www.sfsu.edu/online/cllsch2.htm and accessing the Extended Learning Class schedule, locate EDUC 499 and proceed with enrollment.

Students admitted to a master’s program during or before spring 2008: If a student enrolls in one of the culminating experience courses, such as SPED 898, SPED 895 or SPED 894 to complete their master’s degree, and does not finish their study by the end of the semester, they need to enroll
in at least one course during the semester they intend to graduate and a
grade is entered by their committee chair.

If a student is completing the master’s comprehensive written
examination during the semester of graduation and has completed all
degree requirements, they also need to enroll in at least one course.

Students can meet this requirement by enrolling in EDUC 499 through
the College of Extended Learning http://www.cel.sfsu.edu/register/
forms.cfm

Professors
Certo, Hanson, Hunt, LePage, Lueck, Prinz, Raggio, Robinson, Rosen, Soto,
Wolfberg

Associate Professors
Courey, Epstein, Hsia

Assistant Professors
Friesen, Gray, Solomon-Rice, Yu

Majors
• Bachelor of Arts in Communicative Disorders (bulletin.sfsu.edu/past-
bulletin-archive/2016-2017/colleges/education/special-education/ba-
communicative-disorders)

Minors
• Minor in Special Education (bulletin.sfsu.edu/past-bulletin-
archive/2016-2017/colleges/education/special-education/minor-
special-education)

Masters
• Master of Science in Communicative Disorders (bulletin.sfsu.edu/ past-
bulletin-archive/2016-2017/colleges/education/special-
education/ms-communicative-disorders)
• Master of Arts in Special Education (bulletin.sfsu.edu/past-bulletin-
archive/2016-2017/colleges/education/special-education/ma-
special-education)

Doctor of Philosophy in Education:
Concentration in Special Education
(bulletin.sfsu.edu/past-bulletin-
archive/2016-2017/colleges/education/special-education/doctor-of-philosophy-
education-concentration-special-
education)

Certificates
• Certificate in Augmentative and Alternative Communication
(bulletin.sfsu.edu/past-bulletin-archive/2016-2017/colleges/education/special-
education/certificate-augmentative-alternative-communication)
• Certificate in Autism Spectrum (bulletin.sfsu.edu/past-bulletin-
archive/2016-2017/colleges/education/special-education/certificate-
autism-spectrum)
• Certificate in Early Childhood Special Education (bulletin.sfsu.edu/
past-bulletin-archive/2016-2017/colleges/education/special-
education/certificate-early-childhood-special-education)
• Certificate in Guide Dog Monthly
(this program is under review for discontinuance.)

Communicative Disorders Courses (C D)
C D 300 Human Communicative Disorders (Units: 3)
Prerequisite: Upper division standing.

Communicative development and disorders; processes and models;
language universals; basis of language; speech, language, and hearing
impairments; family and cultural influences; bilingualism and dialectal
variations; evaluation of communicative effectiveness. Intended for non-
CD majors.

Course Attributes:
• UD-D: Social Sciences
• Social Justice

C D 651 Anatomy and Physiology of the Speech Mechanism (Units: 3)
Prerequisites: Declared C D major and upper division standing.

Normal structures and functioning of respiration, phonation, resonance,
and articulation. (Plus-minus letter grade only)

C D 652 Audiology (Units: 3)
Prerequisites: Admission to Communicative Disorders; completion of
C D 658, C D 661, and C D 664; or by advisement; concurrent enrollment in
C D 656 and C D 659.

Structure and function of the ear; sound related to hearing mechanism;
causes, implications, and techniques of determination of hearing
impairment. (Plus-minus letter grade only)

C D 653 Fluency and Voice Disorders (Units: 3)
Prerequisites: Admission to Communicative Disorders major; completion
of C D 652, C D 656GW, and C D 659; or by advisement; concurrent enrollment in
C D 653 and C D 656.

Causes of stuttering, current theories and therapies relative to stuttering
in children and adults. Habilitation and rehabilitation of children and
adults with organic and nonorganic voice disorders. (Plus-minus letter
grade only)

C D 654 Audiometry (Units: 3)
Prerequisites: Admission to Communicative Orders major; completion of
C D 652, C D 656, and C D 659; or by advisement; concurrent enrollment in
C D 653 and C D 656.

Pure tone and bone conduction hearing testing. Masking, immittance
testing, electrophysiological testing, pediatric audiology, speech
audiometry and public school hearing/conversation programs. (Plus-
minus letter grade only.)

C D 655 Dynamics of Communication Development (Units: 3)
Prerequisite: Upper division standing. Psychosocial and sociological
determinants of communication.

Theories of language development; understanding the language
acquisition process of verbal and non-verbal communication. Intended
for non-CD majors.

Course Attributes:
• UD-D: Social Sciences
C D 656 Diagnosis of Communicative Disorders (Units: 3)
Prerequisites: Admission to Communicative Disorders major; completion of C D 585, C D 661, and C D 664; or by advisement; concurrent enrollment in C D 652 and C D 659.

Diagnosis of communicative disorders. Observation, language sample analysis, and distinctive feature analysis. (Plus-minus letter grade only)

C D 657 Aural Rehabilitation (Units: 3)
Prerequisites: Admission to Communicative Disorders major; completion of C D 661, C D 654, C D 680, and C D 658, each with a grade of C- or better; or by advisement. Concurrent enrollment in C D 664 and C D 656.

Psychological, educational, and sociological implications of hearing loss. Aural rehabilitation: speech reading, auditory training, amplification, and speech conservation and/or improvement. (Plus-minus letter grade only.) [Formerly C D 705]

C D 658 Communication Development and Disorders (Units: 3)
Prerequisites: Admission to Communicative Orders major with upper division standing; completion of C D 651, C D 660, and C D 668GW; concurrent enrollment in C D 661 and C D 664.

Language acquisition, disorders and their causes in school age children. Application of diagnostic and intervention techniques. (Plus-minus letter grade only)

C D 659 Articulatory and Phonological Disorders (Units: 3)
Prerequisites: Admission to Communicative Disorders major; completion of C D 658, C D 661, and C D 664; or by advisement; concurrent enrollment in C D 652 and C D 656.

Disordered articulation; accent/dialectal differences; normal phonological processes; phonological disorders and distinctive features. Practicum for diagnosis and therapy for articulation, phonological, and accent problems. (Plus-minus letter grade only)

C D 660 Communicative Disorders (Units: 3)
Prerequisite: Declared C D major and upper division standing.

Voice disorders, adult neurogenic disorders, stuttering, cerebral palsy, and cranio-facial anomalies. Etiology, pathology, diagnosis, and intervention techniques. (Plus-minus letter grade only)

C D 661 Neurolinguistics (Units: 3)
Prerequisites: Admission to Communicative Disorders major; completion of C D 651, C D 660, and C D 668GW; concurrent enrollment in C D 664 and C D 658.

Cortical and sub-cortical components of language processing; current research on the central nervous system and its application to speech, language, and hearing. (Plus-minus letter grade only)

C D 663 Introduction to Augmentative/Alternative Communication (Units: 3)
Prerequisites: Admission to Communicative Disorders major; completion of C D 652, C D 656, and C D 659; or by advisement; concurrent enrollment in C D 653 and C D 654.

Introduction and applied experiences with augmentative and alternative communication, including low- and hi-tech systems. Assessment, team collaboration, funding and use of AAC such as designing systems that meet functional communication needs. (Plus-minus letter grade only) [CSL may be available; consult index for page reference.]

C D 664 Clinical Phonetics (Units: 3)
Prerequisites: Admission to Communicative Disorders major with upper division standing; C D 651, C D 660, and C D 668GW; concurrent enrollment in C D 658 and C D 661.

Speech sounds of American English and the development of phonology. IPA transcription experience applied with regard to human diversity. Not open to students who have taken COMM 410. (Plus-minus letter grade only)

C D 668GW Language Acquisition and Development - GWAR (Units: 3)
Prerequisites: Declared C D major and upper division standing; ENG 214 or equivalent with grade of C- or better.

Exploration of the acquisition patterns of normal speech, language, and pragmatic behaviors. Theories of language development, phonology, morphology, syntax, and semantics. Language analysis with typically developing children. (ABC/NC grading only.)

Course Attributes:
- Graduation Writing Assessment

C D 680 Practicum in Communication Therapy (Unit: 1)
Prerequisites: Communicative disorders major and concurrent enrollment in C D 711 or C D 713.

Supervised clinical experiences in communication rehabilitation for communicative disorders. Type of experience and number of units determined by advisement. May be repeated for a total of 4 units. (Plus-minus letter grade/CR/NC not allowed)

C D 699 Independent Study in CD (Units: 1-3)
Prerequisite: Upper division standing or consent of instructor.

Study of a particular problem under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open to regularly enrolled students only.

C D 701 Language Differences and Disorders in Children (Units: 3)
Prerequisite: Admission to C D program or consent of instructor.

Language disorders and differences in children. Verbal, written, signed, and other symbolic disorders; oral communication. Etiology, diagnosis, and assessment of differences and disorders; intervention strategies. (Plus-minus letter grade only.) [CSL may be available; consult index for page reference.]

C D 706 Counseling in Communicative Disorders (Units: 3)
Prerequisites: C D 701, C D 708, C D 709, C D 768.

Counseling of communicatively disordered individuals and their families. Theories and methods as they apply to the unique disorder. Experimental opportunities for analyzing individual counseling processes. (Plus-minus letter grade only.)

C D 707 Advanced Seminar in Language Disorders in Children (Units: 3)
Prerequisites: Admission to C D program; C D 701 or consent of instructor.

Assessment, intervention, and organizational procedures for use with classes that include children of various ages with language disorders. (Plus-minus letter grade only.)
C D 708 Neurogenic Disorders of Language (Units: 3)
Prerequisite: Admission to C D program or consent of instructor.

Theories and methods of assessment and rehabilitation of adults with aphasia; focus on the nature, diagnosis, and treatment of aphasia, bilingual aphasia and primary progressive aphasia. (Plus-minus letter grade only.)

C D 709 Seminar in Motor Speech Disorder (Units: 3)
Prerequisites: C D 651, C D 653, C D 661, and admission to C D graduate program.

Differential diagnosis and management of motor speech disorders in children and adults, including the dysarthrias and apraxia of speech. (Plus-minus letter grade only.)

C D 710 Seminar in Dysphagia (Units: 3)
Prerequisite: C D 651, C D 661, and admission to the graduate program.

Nature, etiology, and physiology of normal and abnormal patterns of swallowing across the life span, with emphasis on adult population. Clinical swallowing assessment, modified barium swallow study and therapeutic intervention for dysphagia. Treatment and clinical decision-making emphasized. (Plus-minus letter grade only.)

C D 711 Seminar in Therapy for Functional Communicative Disorders (Unit: 1)
Prerequisites: Admission to graduate program and C D 650 or equivalent; graduate major only; must be taken concurrently with C D 880.

Communication therapy, functional speech and language disorders: articulation, delayed speech, and stuttering. Repeated with variable clinic experiences. Units co-vary with frequency of client-staff conference and time delivering more complex therapeutic treatment. May be repeated for 4 units. (Plus-minus letter grade only.)

C D 712 Medical Internship Seminar: Communicative Disabilities (Unit: 1)
Prerequisites: Admission to C D program. Must be taken concurrently with C D 882 and C D 884.

Seminar and peer discussion during hospital or medical intern placement. Review of clinical practices related to speech-language pathology in the evaluation, intervention, and interaction and personal qualities in the treatment of clients/patients. (Plus-minus letter grade only)

C D 713 Seminar in Therapy for Organic Communicative Disorders (Unit: 1)
Prerequisites: Admission to graduate program and C D 663 or equivalent; graduate major only; must be taken concurrently with C D 880.

Communication therapy with speech and language disorders resulting from central nervous system or organic dysfunction. Repeated with variable clinic experiences. Units co-vary with frequency of client-staff conferencing and more complex therapeutic treatment. May be repeated for 3-9 units. (Plus-minus letter grade only.)

C D 715 Advanced School Internship (Units: 6)
Prerequisite: Graduate standing in Communicative Disorders. Must be taken concurrently with C D 725.

Participate in all professional roles of speech-language pathologist in community and school settings. Open only to graduate students in Communicative Disorders who have completed all prerequisite coursework, determined by advisor. (CR/NC grading only)

C D 725 School Intern Seminar: Communication Disabilities (Unit: 1)
Prerequisite: Student intern application approved by adviser and on file at least one semester prior to student intern placement.


C D 750 English Language Learning and Exceptionality (Units: 3)
Prerequisite: Graduate standing.

Examination and analysis of the processes of bilingual language acquisition; theories and techniques of assessment and intervention, situated within the contexts of home, classroom, family and community; home- and classroom-based strategies for the speech-language pathologist and classroom teacher. (Plus-minus letter grade only.)

C D 756 Right Hemisphere Syndrome, TBI, Dementia in Communicative Disabilities (Units: 3)
Prerequisite: C D 708 or consent of adviser.

Discussion of right hemisphere, brain dysfunction, acquired and traumatic brain injuries, and dementia; an understanding of assessment tools, interpretation of results, report writing, and treatment; and different service models. (Plus-minus letter grade only.)

C D 768 Advanced Clinical Skills (Units: 3)
Prerequisites: Admission to C D program; C D 668GW, or consent of instructor.

Analysis of fundamental, transitional, and complex skills that have been shown to positively effect treatment outcomes in the practice of speech-language therapy. (Plus-minus letter grade only.)

C D 880 Advanced Communication Therapy (Units: 2)
Prerequisites: C D 668GW or equivalent.

Supervised clinical methods and practice in communication rehabilitation. May be repeated for a total of 10 units.

C D 881 Internship in Communicative Disorders I (Units: 3)
Prerequisite: Consent of major adviser.

Pre-internship in practicum settings: hospitals, private and public service agencies providing audiology and speech pathology therapies.

C D 882 Advanced Medical Internship (Units: 6)
Prerequisite: Graduate standing in Communicative Disorders. Must be taken concurrently with C D 712.

Participate in all professional roles of speech-language pathologist in community and medical settings. Open only to graduate students who have completed all prerequisite coursework, determined by advisor. (Plus-minus letter grade only.)

C D 884 Advanced Diagnosis in Communicative Disorders (Units: 3)
Prerequisites: 4 units of C D 880, C D 756, and consent of clinic supervisor. Supervised clinical diagnosis of communicative disorders.
C D 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisite: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXAM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered C D 898.

C D 898 Master's Thesis in Communicative Disorders (Units: 3)
Prerequisites: Consent of instructor and graduate major adviser; approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only.)

C D 899 Independent Study (Units: 1-3)
An intensive study of a particular problem in communicative disorders under direction of a member of the department. Enrollment by petition. Open to regularly enrolled students only.

Special Education Courses (SPED)

SPED 310 Exploring Visual Impairments (Units: 3)
Prerequisite: Upper division standing.

Examines challenges posed in daily life for people with visual impairments and their families. Explores options to promote independent living and inclusion in the community for people of all ages and diverse backgrounds. (Plus-minus letter grade only.) [Formerly SPED 633]
Course Attributes:

• UD-D: Social Sciences

SPED 330 Introduction to Disability (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Ways in which society defines, fosters, and understands disabilities. Children and adults with disabilities as a minority group, and relationships between ethnicity and societal definitions of disability. [CSL may be available; consult index for page reference.]
Course Attributes:

• UD-D: Social Sciences

SPED 370 Young Children Disabled or At Risk and Their Families (Units: 3)
Prerequisite: Upper division standing.

Issues related to the development of infants and toddlers with disabilities: prenatal risk factors; family concerns; and a description of cognitive, social, motor, and language development differences.
Course Attributes:

• UD-D: Social Sciences

SPED 601 Observation and Participation in Special Education (Units: 1-3)
Prerequisite: Admission to special education credential program.

Supervised educational and clinical practice with children and youth with disabilities in schools, hospitals, or clinics as required by field of specialization. May be repeated as required by credential. (CR/NC grading only)

SPED 620 The Science of Early Intervention (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Overview of the science behind early intervention including early brain development, environmental risk factors, and effective early intervention supports that promote family resilience. (Plus-minus letter grade only)
Course Attributes:

• UD-B: Physical Life Science
• Environmental Sustainability
• Social Justice

SPED 655 Basic Orientation and Mobility for Learners with Visual Impairments (Units: 3)
Prerequisite: Upper division standing.

Development of spatial and environmental concepts and sensorimotor skills in young learners with visual impairment. Application of orientation and mobility related concepts to travel in home, school, and community environments. (Plus-minus letter grade only) [Formerly SPED 755]
Course Attributes:

• Teacher Credential Program Crs

SPED 662 Education of Deaf/Hard of Hearing Children (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Overview of program options for deaf and hard of hearing children: oralism, total communication, and bilingual/bicultural communication. Historical and current issues, trends, and legislation. Purposes and services of organizations, agencies, and educational programs. (Plus-minus letter grade only.)

SPED 671 Positive Behavior Support for Young Children (Units: 3)
Prerequisite: Upper division standing, or consent of instructor.

Positive behavior approach to addressing challenging behavior of young children at home and in group settings. Practical ideas for fostering social competence, promoting positive behavior, and preventing the occurrence of undesirable behaviors. (Plus-minus letter grade only) [Formerly SPED 371]

SPED 672 Inclusive Learning Environments for Young Children (Units: 3)
Prerequisite: Upper division standing, or consent of instructor.

Practical strategies for including young children with special needs in early childhood settings. Collaborating with professionals and families to provide culturally responsive and individualized learning opportunities. (Plus-minus letter grade only) [Formerly SPED 372]

SPED 673 Observation/Assessment of Young Children with Special Needs (Units: 3)
Prerequisite: Upper division standing, or consent of instructor.

Knowledge and skills required to appropriately observe and assess the developmental skills of young children, birth to five, with disabilities or at risk for disabilities. (Plus-minus letter grade only)
SPED 675 Working with Families of Young Children with Disabilities
(Units: 3)
Prerequisite: Upper division standing or consent of instructor.

Strategies for partnering with families of young children birth to five who have disabilities. Perspectives on developmental and ecological systems. Culturally responsive practice in early childhood settings that include children with special needs. (Plus-minus letter grade only)
Course Attributes:
- Social Justice

SPED 688 American Sign Language I (Units: 3)
Prerequisite: Upper division standing or consent of instructor.

American Sign Language (ASL): ASL as a language system; development of expressive/receptive skills and finger spelling. Vocabulary, grammatical principles, aspects of the deaf culture.
Course Attributes:
- UD-D: Social Sciences

SPED 689 American Sign Language II (Units: 3)
Prerequisite: SPED 688.

Additional vocabulary, grammatical information, and exposure to deaf culture; practice in both expressive and receptive skills.

SPED 723 Workshop: Student Teaching Support Sessions for Moderate/
Severe Disabilities or Visual Impairments (Units: 3)
Prerequisites: CAP on file; verification of eligibility by department. Must be taken concurrently with SPED 730.

Workshop sessions to support student teachers in moderate/severe and visual impairment credential programs. Review planning, guiding, and evaluating experiences during student teaching experience. Includes development of preliminary induction plan. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 725 Workshop: Student Teaching Support Sessions for Mild/
Moderate Disabilities or Orientation Mobility (Units: 3)
Prerequisites: CAP on file; verification of eligibility by department. Must be taken concurrently with SPED 730.

Workshop sessions to support student teachers in Mild/Moderate Disabilities or Orientation and Mobility programs. Review planning, guiding, and evaluating experiences during student teaching experience. Includes development of preliminary induction plan. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 729 Student Teaching Workshop: Early Childhood Special
Education (Unit: 1)
Prerequisite: Consent of program/instructor. Must be taken concurrently with SPED 730.

Reviews planning, guiding, and evaluating experiences of students eligible for early childhood special education services. Development of a preliminary induction plan. May be repeated for a total of 2 units. (Plus/Minus Letter grading only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 730 Student Teaching: Special Education (Units: 3-9)
Prerequisite: Completion of advanced curriculum or consent of adviser. Must be taken concurrently with SPED 723, SPED 726, or SPED 729 in credential area.

Student teaching field experience in special education setting as required by credential. Units upon advisement. (CR/NC grading only.) May be repeated one time for a total of 6 units or 18 units. (Students who receive a grade of No Credit twice will be subject to declassification from the credential.)
Course Attributes:
- Teacher Credential Program Crs

SPED 735 Technology for Visually Impaired Students (Units: 2)
Prerequisite: SPED 754 or consent of instructor.

Specialized technology and computer integration for individuals with visual impairments. Use of devices: closed circuit television, word processors, large print displays, voice output, electronic note takers and adaptive materials such as talking calculators and tactile graphics. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 737 Infant Intervention (Units: 3)
Prerequisite: SPED 777.

Models for disabled infants and families, interagency coordination, program administration, and transdisciplinary team approach. Practicum experience with an atypical infant as part of seminar requirement. Part one of a two-part sequence curriculum series with SPED 738. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 738 Preschool Intervention (Units: 3)
Prerequisites: SPED 777; SPED 737 (preferred for M.A. candidates).

Curriculum and instructional models for preschool, interagency coordination, program administration, and collaboration with families. Experience working with disabled preschoolers. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs
SPED 740 Education Specialist Credential Induction Plan (Units: 3)
Prerequisite: Completion of Preliminary Level I Education Specialist Credential and employment in credential area; graduate standing.

Development, implementation, and evaluation of induction plan to clear education specialist credentials for candidates. Maybe repeated for a total of 6 units. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 741 Introduction to Canine Assessment and Training (Units: 3)
Prerequisite: Admission to Guide Dog Mobility Program.

Physical, emotional and psychological development of dogs. Learning and training theories related to both canines and humans. Overview of the evolution and formal use of dog guides and long canes as mobility tools.

SPED 743 Issues in Augmentative and Alternative Communication (Units: 3)
Prerequisite: Admission to program or consent of instructor.

Physical implications for speech/language development and disorders, aided/unaided communication strategies, assessment and intervention using interdisciplinary strategies for children and adults. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 745 Environmental Design for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 702, SPED 803. Must be taken concurrently with SPED 773 and SPED 821.

Inclusive education: historical and philosophical bases, advocacy roles, and collaborative teaming skills necessary for the development and delivery of curriculum in inclusive school and community settings. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 746 Teaching Individuals with Physical and Other Health Impairments (Units: 3)
Prerequisites: SPED 747 or consent of instructor.

Advanced methods: disabilities assessment, instruction; organization and curriculum design; communication intervention literacy; assistive technology; and collaboration with parents, aides, and other professionals. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 747 Physical Disabilities and Sensory Impairments (Units: 3)
Prerequisite: Admission to MA program or education specialist credential.

Focus on medical information and its implications for instruction, as well as physical management of students with sensory and physical disabilities. Management of special equipment, feeding, positioning and emergency handling procedures. (Plus-minus letter grade only)
Course Attributes:
- Teacher Credential Program Crs

SPED 749 Medical, Educational, and Rehabilitative Implications of Visual Impairment (Units: 4)
Prerequisites: SPED 655 or SPED 758 or consent of instructor.

Anatomy, physiology and disorders of the eye, and the functional/educational implications of vision loss. Assessment of low vision, use of prescriptive and non-prescriptive low vision aids to optimize use of vision. Application to individualized program planning and implementation. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 750 Assessment for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 749 or consent of instructor.

Formal and informal assessment to determine the unique educational needs and appropriate learning media for individuals with visual impairments. Selection, adaptation, and preparation of instructional materials: print, Braille, and auditory. Evaluation of learning environments and alternative forms of service delivery. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 751 Instruction for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 749 or consent of instructor.

Selection, adaptation, and preparation of instructional materials and design of learning environments. Disability specific academic skills and accessing specialized resources. Adaptation of regular education curriculum for learners with visual impairments. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs

SPED 752 Issues in Visual Impairment (Units: 3)
Prerequisites: SPED 749 or consent of instructor.

Psychosocial and vocational implications of visual impairment. Instructional methods and strategies for transition. Local, state, and national legislation. (Plus-minus letter grade only.)
Course Attributes:
- Teacher Credential Program Crs
SPED 753 Living Skills Assessment and Instruction for Learners with Visual Impairments (Units: 3)
Prerequisites: SPED 749 or consent of instructor.
Methods and instructional strategies for teaching specialized functional skills to individuals with visual impairments. Design and implement functional and age appropriate programs for learners of different cognitive abilities. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 754 Basic Communication Skills for Learners with Visual Impairments (Units: 3)
Prerequisites: SPED 749 or consent of instructor.

Course Attributes:
• Teacher Credential Program Crs

SPED 755 Formal Guidework Training (Units: 3)
Prerequisite: Admission to Guide Dog Mobility Program.
Training and communicating with a guide dog. Development of advanced techniques to reduce resistance and avoidance behaviors in potential guide dogs. Mobility techniques and final preparation of guide dogs to work in complex and challenging environments.

SPED 756 Orientation and Mobility Seminar (Units: 3)
Prerequisite: SPED 755, or consent of instructor.
Issues and trends, philosophies, and professional ethics. Service delivery systems and resources for establishment, administration, and supervision of orientation and mobility programs. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 757 Visual Impairment: Special Populations (Units: 3)
Prerequisite: SPED 749 or consent of instructor.
Impact of visual impairment on growth and development of learners age 0-22 years. Transdisciplinary approach to serving learners who have multiple impairments. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 758 Advanced Communication Skills for Learners with Visual Impairments (Units: 3)
Prerequisite: SPED 754 or consent of instructor.
Advanced formats of Braille codes: literary, mathematical, computer, foreign language, and music. Use of slate and stylus. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 759 Introduction to Client Instruction (Units: 3)
Prerequisite: Admission to Guide Dog Mobility Program.
Introduction to working with a guide dog team, including initial instructional methods and skills, transitioning from cane to guide dog mobility. Orientation & mobility for special populations. Travel on college campuses. Sensory strategies for working a guide dog.

SPED 760 Methods in Orientation and Mobility I (Units: 3)
Prerequisite: SPED 755 (may be taken concurrently). Must be taken concurrently with SPED 792.
Use of the long cane. Orientation and mobility in indoor and simple residential outdoor environments. Application of concepts to travel in home, school, and community environments. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 761 Instructional Management and Special Populations (Units: 3)
Prerequisite: Admission to Guide Dog Mobility Program.

SPED 763 Transition Planning for Students with Disabilities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Strategies to facilitate the transition from early childhood educational and related services, to services provided in K-12 schools, and to facilitate self-determined careers, post-secondary education, and community living for secondary-aged students with disabilities. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 770 Mild/Moderate Disabilities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.
Mild/moderate disabilities: definition and diagnosis of learning disabilities, emotional/behavior disorders, and mental retardation. Historical factors and current issues pertaining to public policy and service delivery. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 772 Assessment, Curriculum, and Instruction (Units: 3)
Prerequisites: E ED 682 and E ED 684, SPED 702 and SPED 803.
Development of assessment, curriculum, and instructional practices to provide responsive instruction to meet diverse needs of individuals with mild, moderate, and severe disabilities. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs
SPED 773 Methods of Assessment and Instruction for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 702, SPED 803. Must be taken concurrently with SPED 745 and SPED 821.

Methods of assessment, curriculum, and instruction for students with moderate/severe disabilities, including ecological assessments and systematic instruction and evaluation of student progress. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 774 Positive Behavior Support (Units: 3)
Prerequisites: SPED 702, 803, E ED 682, and E ED 684; or consent of instructor.

Understanding and interpreting behavior; ecological perspectives. Proactive strategies to prevent occurrence and escalation of problem behaviors, evaluation of behavior problems, and implementation of interventions in the least restrictive environment. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 775 Advanced Methods in Mild/Moderate Disabilities (Units: 3)
Prerequisites: E ED 682, E ED 684, SPED 702, SPED 772, SPED 774, and SPED 803. Must be taken concurrently with SPED 770.

Procedures for assessing needs, selecting curriculum priorities, and designing responsive instructional and behavioral plans for meeting the needs of individuals with mild and moderate disabilities. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 777 Development and Learning of Young Children with Special Needs (Units: 3)
Prerequisite: Admission to Special Education specialist credential and master’s degree.

Infant and young child development comparisons and among a typical and normal patterns. Implications for early intervention and educational programming. Practical experience with infant and young child. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 778 Advanced Literacy and Instruction (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Focus on current research on literacy and skills related to the development of student literacy. Assessment, curriculum development and instructional practices for teaching reading to students experiencing reading difficulties, especially those with mild to moderate disabilities. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 779 Family Systems and Services for Young Children with Disabilities (Units: 3)
Prerequisite: SPED 777.

Understanding and assessing family systems and caregiver-child interactions; developing intervention programs. Family situations that generate unique needs. Learn how to effectively communicate with families of disabled children and to link families with community support networks. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 780 Assessment and Program Evaluation in Early Childhood Special Education Setting (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Assessment of children from birth to five years; program evaluation design. Analysis of both formal and informal assessments, translation of child and family assessment into educational plans, and overall program evaluation designs. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 787 Advanced Assessment and Instruction for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 702, SPED 803, SPED 745, SPED 773. Must be taken concurrently with SPED 789 and SPED 821.

Assessment, curriculum, and instructional design for students with moderate to severe disabilities with special emphasis on students who experience sensory and/or physical disabilities. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 788 Law, Ethics, and Instructional Planning (Units: 3)
Prerequisite: Admission to Special Education or Communicative Disorders programs.

Legal foundations and requirements providing public education services to students with disabilities. Policy development, advocacy programs, IEPs, family support plans, technology and universal design, intervention and post-secondary transition. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs

SPED 789 Advanced Environmental Design for Students with Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 702, SPED 803, SPED 745, SPED 773. Must be taken concurrently with SPED 787 and SPED 821.

Development of communication systems for, and the interactive skills of, students with moderate/severe disabilities. Development and implementation of positive behavioral support plans for students with challenging behaviors. (Plus-minus letter grade only.)
Course Attributes:
• Teacher Credential Program Crs
SPED 791 Nature of Autism Spectrum Disorders (Units: 3)
Prerequisites: Admission to Special Education credential or MA program or consent of instructor.

Educating diverse learners with Autism Spectrum Disorders, historical and theoretical foundation, etiology, definitions, characteristics, developmental and learning profiles, assessment frameworks and procedures, current and emerging practices, individualized educational supports and service delivery models. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 792 Methods in Orientation and Mobility II (Units: 3)
Prerequisite: SPED 755 (may be taken concurrently); Must be taken concurrently with SPED 760.

Age-related changes in orientation and mobility needs. Overview of assessment and individualized instructional methods. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 793 Atypical Cognitive Development (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Developmental theory as it applies to the education of atypical youth: cognitive development in its interrelation with linguistic, communicative, social, and affective development. (Plus-minus letter grade only.)

SPED 794 Communication, Socialization and Imagination: Autism (Units: 3)
Prerequisite: SPED 791 or consent of instructor.

Enhancing communication, socialization, play and imagination in diverse learners with autism spectrum disorders; functional communication, AAC, pragmatic language approaches; environmental supports; adult-directed, child-centered, peer-mediated practices; inclusion with typical peer/siblings in school, home, community settings. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 796 Partnerships and Life Issues: Autism (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Rigorous exploration and critical analysis of contemporary issues influencing the lifelong learning, development and sociocultural experiences of people on the autism spectrum; transitions and lifespan issues; family, school and community supports and partnerships; professional literacy and leadership as autism specialist. (Plus-minus letter grade only.)

SPED 801 Development, Diversity, and English Language Learners: Special Education (Units: 3)
Prerequisite: Admission to Special Education or Communicative Disorders programs.

Foundation in typical and atypical development, the interaction between diverse cultures, races and disability within the context of changing state and national demographics, and implications of disability for English-Language Learners. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 807 Research and Literature, Policy and Practice in Special Education (Units: 3)
Prerequisite: Admission to MA program or education specialist credential.

Overview of research used in special education, both to formulate policy and inform practice. Explore various uses of research evidence and controversial topics. Research connected to world of practice. Plus-minus letter grade only.

SPED 821 Fieldwork in Moderate/Severe Disabilities (Units: 3)
Prerequisites: SPED 702, SPED 803. Must be taken concurrently with SPED 745, SPED 773, SPED 787, SPED 789.

Supervised fieldwork to promote and support the application of knowledge and skills gained in core methods courses. Sites with educational programs for students with moderate/severe disabilities. May be repeated for a total of 6 units. (Plus-minus letter grade only)

Course Attributes:
• Teacher Credential Program Crs

SPED 822 Methods in Orientation and Mobility III (Units: 3)
Prerequisites: SPED 755, SPED 760, and SPED 792. Must be taken concurrently with SPED 823.

Principles of orientation and mobility in simple to complex environments; theories and issues related to architectural design for safety and environmental analysis, traffic systems and transportation systems. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 823 Methods in Orientation and Mobility IV (Units: 3)
Prerequisites: SPED 755, SPED 760, and SPED 792. Must be taken concurrently with SPED 822.

Principles of mobility in simple to complex areas. Diverse mobility systems and functions, and indications for their use in varying travel environments and by learners of diverse ages and travel needs. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs
SPED 825 Behavior and Instructional Supports: Autism (Units: 3)
Prerequisite: Admission to Special Education credential or MA program or consent of instructor.

Preparation in design and diverse learners with autism spectrum disorders; data-based assessment and intervention; environmental supports; structured teaching; differentiated instruction; ABA, cognitive, developmental, sensory-based approaches. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 831 Internship in Special Education (Units: 3-6)
Prerequisites: ISED 797 and consent of graduate adviser.

Practicum in clinics, rehabilitation centers, and schools under supervision of specialists in fields of special education or rehabilitation. May be repeated for a total of 6 units.

SPED 833 Educational Services for Learners with Deaf-Blindness (Units: 3)
Prerequisite: Graduate admission to Moderate-Severe Disabilities Program.

Unique needs of learners who are deaf-blind and the best practices for providing appropriate education services for this population of students. (Plus-minus letter grade only)

SPED 844 Special Education Accommodation in Core Content Classrooms (Units: 2)
Prerequisite: Graduate standing or consent of instructor.

Techniques to facilitate collaborative work between General and Special Education teachers; specific strategies and tools to accommodate students with special needs in core curriculum classrooms.

SPED 881 Advanced Research Seminar in Special Education (Units: 3)
Prerequisites: Advanced standing in master's degree program and ISED 797.

Research designs. Development of problems and hypotheses. Matching research questions to designs. Critique of research studies. Major assignments include written critique and a research proposal. (Plus-minus letter grade only.)

SPED 885 Advanced Topics in Special Education (Units: 3)
Prerequisites: Completion of Level I education specialist credential and SPED 740, or consent of instructor.

Topic to be specified in Class Schedule. May be repeated when topics vary. (Plus-minus letter grade only.)

Course Attributes:
• Teacher Credential Program Crs

SPED 894 Creative Work Project in Special Education (Units: 3)
Prerequisite: Consent of graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Design, development, and production of instructional product in degree emphasis. Work may include curriculum or training materials in educational or related setting for professionals, students, and families. A final product and written report required. ATC and Proposal for Culminating Experience Requirement forms must be approved by Graduate Studies before enrollment. (CR/NC, RP grading only.)

SPED 895 Field Study: Special Education (Units: 3)
Prerequisite: Approval of the graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC; RP grading only.)

SPED 896EXM Culminating Experience Examination (Units: 0-3)
Prerequisite: Consent of instructor, committee chair, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration.

Enrollment in 896EXM required for students whose culminating experience consists of an examination only. Not for students enrolled in a culminating experience course numbered SPED 894, SPED 895, SPED 898, or SPED 998.

SPED 898 Master’s Thesis (Units: 3)
Prerequisites: Approval of graduate major advisor, and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies. ATC and Proposal for Culminating Experience Requirement forms must be approved by the Graduate Division before registration. (CR/NC grading only.)

SPED 899 Independent Study (Units: 1-3)
An intensive study of a particular problem in education under direction of a member of the department. Enrollment by petition approved by the instructor, adviser, and department chair. Open only to regularly enrolled students.

SPED 902 Public Policy in Special Education (Unit: 1)
Prerequisite: Admission to joint doctoral program and consent of advisor.

Translating federal policy in special education into applications for roles of advocacy, teaching, research and leadership. (Plus-minus letter grade only.)

SPED 903 Research Seminar in Special Education: Program Design and Analysis (Units: 3)
Prerequisite: Admission to doctoral program.

Making of inferences between independent and dependent variables in research with disabled persons. Analyze and design experimental research; internal and external validity. Exposure to different designs with purpose of selection of appropriate design to match specific research questions. (Plus-minus letter grade only.)

SPED 905 University-level Teaching Internship (Units: 3)
Prerequisite: Admission to Education joint doctoral program.

Mentoring support and guidance to doctoral students teaching at university level. Assignments begin at novice level as an observer, with advancement to planning, delivery of instruction including lectures, online activity, assessments and evaluation. May be repeated for a total of 6 units. (CR/NC grading.)

SPED 906 University-level Research Internship (Units: 3)
Prerequisite: Admission to Special Education joint doctoral program.

Mentored support and guidance in conducting research. Novice to advanced skills in research design, data collection and analysis, interpretation, and dissemination of findings. Enrollment in two consecutive semesters; may be repeated for a total of 6 units. (CR/NC grading only)
SPED 907 Learning and Development: The Influence of Disabilities (Units: 3)
Prerequisite: Graduate standing or consent of instructor.

Development and learning theory applied to individuals with disabilities. Cognitive, language, and social-affective development throughout the lifespan. Interaction styles, learning styles, sequences, rate, modality, and continuity/discontinuity of development and learning. (Plus-minus letter grade only.)

SPED 908 Directed Studies: Special Topics (Units: 1-3)
Prerequisite: Admission to joint doctoral program in special education.

Provides opportunity for student to explore a special topic or problem either as an individual or with a group with special interests. May be repeated.

SPED 909 Current Issues Special Education Policy and Practice (Units: 3)
Prerequisite: Admission to joint doctoral program.

Joint doctoral program core seminar on contemporary policy issues, practice and research in special education. (Plus-minus letter grade only.)

SPED 910 Directed Study Special Topics (Units: 3)
Prerequisite: Admission to the Joint Doctoral Special Education program.

Professional research and service activities, experience expected for post-doctoral professionals. All activities completed under the direction and supervision of a joint doctoral faculty member. Students will select topics and activities that are appropriate to their career goals and areas of specialization upon advisement with their university mentors. Students will register for SPED 910 when engaged in Mentored Research Networks and for their Professional/Community Service Internship. May be repeated for a total of 12 units.

SPED 998 Doctoral Dissertation in Special Education (Units: 3)
Prerequisite: Advancement to candidacy.

Independent research leading to the completion of the doctoral dissertation. Open only to students in the joint doctoral program in special education. May be repeated.