

# SPEECH-LANGUAGE PATHOLOGY

College of Health and Human Services

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**Advisors:**

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**Clinic Coordinator:** Stephen Charlton

**Technician:** Rodney Pau

**Department Administrator:** Susan McNamara

## Career Possibilities

Speech-Language Pathologist • Speech-Language Pathology Assistant • Audiologist • Vocational Rehabilitation Counselor • Supervisor of Special Education (For more information, see [www.careers.csulb.edu](http://www.careers.csulb.edu).)

## Introduction

The Speech-Language Pathology Department provides undergraduate coursework for students planning careers in speech-language pathology or audiology. Departmental majors may complete work leading to the Bachelor of Arts degree in Communicative Disorders (Speech-Language Pathology) and Master of Arts degree in Communicative Disorders (Speech-Language Pathology). Students who earn the Master's degree qualify for the Certificate of Clinical Competence in Speech-Language Pathology from the American Speech-Language-Hearing Association, the Speech-Language Pathology Services Credential from the California Commission for Teacher Credentialing, and the State of California Licensure in Speech-Language Pathology. Students pursuing the B.A. degree may qualify for State of California Licensure as a Speech-Language Pathology Assistant.

The department maintains a language, speech and hearing clinic to serve as a clinical and research laboratory on campus for both graduate and undergraduate students. Field placements are available in local hospitals, rehabilitation agencies, language/speech/hearing clinics, and public schools.

The Department of Speech-Language Pathology at CSULB is fully accredited, by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

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## Undergraduate Programs

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### Bachelor of Arts in Speech-Language Pathology (120 units)

#### Admission Under Impaction

Refer to the following website for additional impaction criteria: [http://www.csulb.edu/depts/enrollment/admissions/impacted\\_major.html](http://www.csulb.edu/depts/enrollment/admissions/impacted_major.html).

#### Requirements

##### Lower Division:

Take all the following courses:

C D 261 Anatomy and Physiology of the Speech and Hearing Mechanism (3)  
Prerequisites: None

C D 271 Phonetics (3)  
Prerequisite: None

PSY 110 Introductory Statistics (or equivalent) (4)

\* C or better

Prerequisites: Eligible to take a General Education Mathematics course.

##### Upper Division:

Take all the following courses:

C D 329 Language Acquisition: From Birth Through Adolescence (3)  
Prerequisites: CD 261, CD 271.

C D 330 Speech and Hearing Science (3)  
Prerequisites: CD 261 and CD 271.

C D 373 Audiology I (3)  
Prerequisites: CD 261, CD 271.

C D 440 Aural Rehabilitation for Hearing Impaired (3)  
Prerequisites: CD 261, CD 271, CD 373.

C D 456 Speech Pathology I: Speech Sound Disorders (3)  
Prerequisites: CD 261, CD 271, CD 329, CD 460.

C D 460 Multicultural and Multilingual Issues in Speech-Language Pathology (3)  
Prerequisites: CD 261, CD 271, CD 329.

C D 464 Behavior Management and Counseling in Speech-Language Pathology (3)  
Prerequisites: CD 261, CD 271, CD 329.

C D 466 Speech Pathology II: Speech Motor Disorders (3)  
Prerequisites: CD 261, CD 271, CD 330, CD 476.

C D 472 Alternative and Augmentative Communication (3)  
Prerequisites: CD 261, CD 271, CD 329, CD 464.

C D 476 Speech Pathology III: Disorders of Voice/Oro-Facial Mechanism (3)  
Prerequisites: CD 261, CD 271, CD 330.

C D 477 Disorders of Swallowing (3)  
Prerequisites: CD 261, CD 271.

C D 481A Speech Pathology IV: Disorders of Language, Children (3)  
Prerequisites: CD 261, CD 271, CD 329, CD 456.

C D 481B Speech Pathology IV: Disorders of

Language, Neuropathologies (3)

Prerequisites: CD 261, CD 271, CD 329, CD 483.

C D 483 Assessment of Monolingual and Bilingual Clients (3)

Prerequisites: CD 261, CD 271, CD 329, CD 330, CD 460.

C D 485 Introduction to Autism Spectrum Disorders for Speech-Language Pathologists (3)

Prerequisites: CD 261, CD 271, CD 329, CD 464, CD 483.

C D 489 Clinical Observations and Professional Writing for Prospective Speech-Language Pathologists (3)

Prerequisites: CD 261, CD 271, CD 329, CD 456, CD 466, CD 476, CD 483.

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## Graduate Programs

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### Master of Arts in Speech-Language Pathology

#### Admission to the Graduate Program

Enrollment in 500/600 level courses in speech-language pathology is restricted to students who have been accepted to one of the graduate programs (traditional or cohort) of the department as unconditionally classified students. Students wishing to be admitted must complete the following procedures:

1. Students must meet the criteria for acceptance by the University as a graduate student;
2. Every student (new or continuing) must apply directly to the university through CSU Mentor. CSU Mentor applications are processed by the university online at <http://www.csumentor.edu/>. Original transcripts and GRE scores must be sent directly to the university. The department will access these transcripts electronically for department evaluation. All materials to the university must be received no later than January 15th;
3. Students applying to the traditional or special cohort M.A. program, then must apply to the Department of Speech-Language Pathology for admission to the graduate program using the department application form. This form must be filed with the graduate advisor by January 15th for admission in the subsequent fall semester. The following supportive materials must be filed with the department admission application:

A. Change of objective form available at department office (continuing CSULB students only);

B. One-page summary of relevant work, volunteer or research experience, with name and contact information for corroborating professional.

NOTE: Minimum Criteria 1) a GPA of 3.5 or better in the last 60 units of coursework, including Speech-Language Pathology coursework; and 2) confirmation of acceptable GPA obtained during the final senior semester.

Any course deficiencies will be determined by the department graduate committee after consultation with the student and the student's faculty advisor. Students applying to the graduate program in Speech-Language Pathology will have completed one of the two prerequisites listed in the next section prior to

enrollment in graduate classes.

#### Prerequisites

1. A bachelor's degree from an accredited institution with a major in communicative disorders, speech-language pathology, speech and hearing sciences, etc., or
2. A bachelor's degree from an accredited institution in a discipline other than Speech-Language Pathology. The applicant must have at least 30 units of course work in speech-language pathology/communicative disorders as a matriculated student in an undergraduate program or master's preparatory program from a university with accreditation from the American Speech-Language-Hearing Association (ASHA) before enrollment in the graduate program.

#### Advancement to Candidacy

In order to be advanced to candidacy for a Master's degree, a student must meet the following criteria:

1. enrollment in the semester or summer session in which advancement takes place;
2. satisfactory completion of C D 696 Research Methods: Applied and Basic (3) and three additional units;
3. satisfactory fulfillment of the CSULB Graduation Writing Assessment Requirement (GWAR). The GWAR must be fulfilled before the student is advanced to candidacy;
4. maintenance of a GPA of at least 3.0 in (a) all graduate work completed in Speech-Language Pathology, (b) all graduate work completed at CSULB, and (c) all graduate work transferred to meet graduation requirements with no grade below "C";
5. filing of the student Program for the Master of Arts Degree in Speech-Language Pathology after completion of items 2-5;
6. the Department's standard written program of graduate courses approved by the student's department advisor, the department graduate advisor, the department chairperson, and the College of Health and Human Services Associate Dean. (This form is known as the Advancement to Candidacy form.)

#### Requirements

Forty-one to Forty-Five (41-45) units of course work are required:

Take all of the following courses (31 units):

C D 661 Traumatic Brain Injury Across the Lifespan (3)  
Prerequisites: CD 696.

C D 662 Seminar in School-Age Language Disorders: Grade 1 through High School (3)  
Prerequisites: CD 456, CD 481A and CD 696.

C D 663 Seminar in Preschool Language Disorders: 0-5 Years (3)  
Prerequisites: CD 456 and CD 481A. Corequisite: CD 696.

C D 665 Seminar in Language Disorders in Adults (3)  
Prerequisites: CD 481B, CD 696.

C D 666 Seminar in Motor Speech Disorders and Fluency Disorders (3)  
Prerequisites: CD 466, CD 696.

C D 667 Seminar in Autism Spectrum Disorders (3)  
Prerequisite: CD 696.

C D 668 Seminar in Dysphagia (2)

Prerequisite: CD 477, CD 696

C D 669A Clinical Practice – Child-Adolescent Speech and Language Clinic (2)

Prerequisites: CD 489; Prerequisite/Corequisites: CD 663 and consent of instructor.

C D 669B Clinical Practice: Autism Spectrum Disorders (2)

Prerequisites: CD 667.

C D 669J Clinical Practice - Adult Speech and Language Clinic (2)

Prerequisites: CD 489; Prerequisite/Corequisites: CD 665 and consent of instructor.

C D 669L Clinical Practice with Culturally and Linguistically Diverse Clients (2)

Prerequisites: 1) Completion of all disorder-specific graduate seminars; 2) completion of a minimum of 3 core clinics (CD 669 A-J); 3) CD 483 and CD 489, or equivalent as approved by the instructor) and consent of instructor.

C D 696 Research Methods: Applied and Basic (3)

Prerequisites: PSY 110 or equivalent or consent of instructor.

Take one of the following options:

Option 1 (10 units):

C D 670 Medical Internship in Speech and Language Pathology (5)

Prerequisites: Complete with a grade of B or higher all graduate seminars for the Master's degree in CD and all graduate clinics applicable to specific field placement (as determined by Instructor), and Department consent.)

and

C D 686A Public School Practicum in Speech-Language Pathology (5)

Prerequisites: Pass the CBEST, complete with a grade of "B" or higher all graduate seminars and all but one graduate clinic required for the Master's degree in CD, and department consent.

Option 2 (7 units):

CD 669H Clinical Practice-Special Programs (2)

Prerequisites: At least one of the C D 669A through J courses. Specialized practice placement to obtain experience with speech, language, and hearing disorders. May be repeated to a maximum of 4 units. Letter grade only (A-F).

and

C D 670 Medical Internship in Speech and Language Pathology (5)

Prerequisites: Complete with a grade of B or higher all graduate seminars for the Master's degree in CD and all graduate clinics applicable to specific field placement (as determined by Instructor and Department consent.)

or

CD 686A Public School Practicum in Speech-Language Pathology (5)

Prerequisites: Pass the CBEST, complete with a grade of "B" or higher all graduate seminars and all but one graduate clinic required for the Master's degree in CD, and department consent.

Completion of one of the following options:

Option 1 Comprehensive Examination (3 Units):

C D 695 Directed Readings and a 2-unit elective (C D 575 recommended)

Prerequisites: Consent of instructor.

or

Option 2 Thesis (4 Units):

C D 698 Thesis

Prerequisites: Advancement to candidacy for master's degree.

Regulations governing the preparation and eligibility for the administration of comprehensive examination options are available in the Department Office. Departmental regulations concerning preparation of these are also available in the office.

Within the context of the C D 669L clinical course,

(1) The student will complete a minimum of 25 hours of clinical experience under appropriate supervision with a client determined to be of a language or dialect different from that of the student clinician.

(2) Students who are bilingual and biliterate in English and another language may be eligible for clinical practice using their non-English language, within the C D 669L practicum.

## Credential for Service in Public Education Speech-Language Pathology Services Credential (code 912)

Candidates must:

1. Complete the master's degree in speech-language pathology.

2. Complete the following courses:

EDSP 350 Education of Exceptional Individuals (3)

Prerequisites: None.

C D 575 Educational Topics in Speech-Language Pathology (2)

Prerequisites: None.

C D 483 Assessment of Monolingual and Bilingual Clients (3)

Prerequisites: C D 261, C D 271, C D 329, C D 330, C D 460.

C D 489 Management of Monolingual and Bilingual Clients (3)

Prerequisites: C D 261, C D 271, C D 329, C D 456, C D 466, C D 476, C D 483

C D 686A Public School Practicum in Speech-Language Pathology (5)

(in order to complete a minimum of 100 contact hours as a Speech-Language Specialist trainee in school setting)

Prerequisites: Pass the CBEST, complete with a grade of "B" or higher all graduate seminars and all but one graduate clinic required for the Master's degree in CD, and department consent.

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## Speech-Language Pathology Courses (C D)

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### LOWER DIVISION

#### 60. Selected Topics in Communicative Disorders (1)

Prerequisite: Consent of instructor.

Speech, language and hearing therapy to students enrolled in the University.

May be repeated to a maximum of 2 units. Topics announced in the *Schedule of Classes*.

#### 261. Anatomy and Physiology of the Speech and Hearing Mechanism (3)

Anatomical, physiological and neurological components of the speech and hearing mechanism. Designed for students planning to enter the clinical program in communicative disorders.

Letter grade only (A-F).

### **271. Phonetics (3)**

Phonetic basis of speech sounds and the various factors which influence pronunciation. Consideration is given to linguistic variations, regional dialects and standards.

Letter grade only (A-F). (Discussion 2 hours, Laboratory 3 hours.)

## **UPPER DIVISION**

### **329. Language Acquisition: From Birth Through Adolescence (3)**

Prerequisite: CD 261, CD 271.

Introduction to language learning and its impact upon communication, socialization and literacy. Study of the form, content and use of language across time with an emphasis upon first language learning. Cognitive, cultural and emotional factors are considered.

Letter grade only (A-F). Not open for credit to students with credit in LING 329.

### **330. Speech and Hearing Science (3)**

Prerequisites: C D 261 and CD 271.

Course Description: Examination of the anatomical, physiological, psychological and acoustic aspects of speech. Through readings, discussions, videos, and interactive software the student is expected to become more aware and analytical of the instrumentation and scientific basis of production and perception of speech.

Letter grade only (A-F). (Lecture/discussion)

### **373. Audiology I (3)**

Prerequisite: CD 261, CD 271.

Introduction to audiology; acoustics, anatomy and physiology of the ear, pure-tone audiometry/masking, speech audiometry/ masking, principles of taking a case history, and report writing.

Letter grade only (A-F).

### **440. Aural Rehabilitation for the Hearing Impaired (3)**

Prerequisites: CD 261, CD 271, CD 373.

Nature of hearing impairment and impact on communicative function. Procedures for assessment and management of hearing loss, including amplification, counseling, and self-report scales. Focus is primarily adult clients but will include some information regarding children.

Letter grade only (A-F).

### **456. Speech Pathology I: Speech Sound Disorders (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 460.

Etiology, assessment and treatment of disorders of phonology.

Letter grade only (A-F).

### **460. Multicultural and Multilingual Issues in Speech-Language Pathology (3)**

Prerequisite: CD 261, CD 271, CD 329.

Provides understanding of non-discriminatory assessment process for linguistically and culturally diverse clients referred for speech-language assessment. Includes information relative to cultural differences, use of interpreters/translators, biases of assessment, and differential diagnoses, such as language disorder versus language difference.

Letter grade only (A-F).

### **462. Speech-Language Pathology Assistant (SLPA) Practicum (3)**

Prerequisite: At least 33 units in communicative disorders completed with a grade of "B" or better.

For students interested in receiving a license to work as a SLPA. Weekly lecturers covering the laws, practices and ethics governing SLPAs and 70 hours of supervised undergraduate clinical practicum.

Credit/ no credit grading only. Course fee may be required.

### **464. Behavior Management and Counseling in Speech-Language Pathology (3)**

Prerequisites: CD 261, CD 271, CD 329

The course provides entry-level knowledge in behavior management and counseling skills for speech-language pathologists. Students study prevention, identification and intervention for behavior problems and apply counseling theories and techniques to daily practice with individuals with communication disorders.

Letter grade only (A-F).

### **466. Speech Pathology II: Speech Motor Disorders (3)**

Prerequisites: CD 261, CD 271, CD 330, CD 476.

Etiology, assessment, and therapy for disturbances of the speech motor system with emphasis on the neuroanatomical, neurophysiological, psychological, and linguistic variables correlated to aberrant behaviors.

Letter grade only (A-F).

### **472. Alternative and Augmentative Communication (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 464.

An understanding of relevant topics in alternative and augmentative communication (AAC), assistive technology (AT); assessment and management of patients with severe communication impairments. Topics will include a variety of disabilities in both pediatric and adult patients, across varying communication environments.

Letter grade only (A-F).

### **476. Speech Pathology III: Disorders of Voice/Oro-facial Mechanism (3)**

Prerequisites: CD 261, CD 271, CD 330.

Processes of phonation and resonance and their application to etiology, diagnosis and therapy of functional and organic voice disorders, such as those arising from laryngeal pathology, vocal abuse, neurological impairment, auditory impairment and oro-facial abnormalities.

Letter grade only (A-F).

### **477. Disorders of Swallowing (3)**

Prerequisite: CD 261, CD 271.

Anatomy, physiology, and neuroanatomy of normal swallowing. Neurological and oncologic disorders which affect the swallow process. Evaluation of the patient with dysphagia will include clinical and instrumental analysis. Treatment plans based on history and evaluative results will be designed and examined.

Letter grade only (A-F).

### **481A. Speech Pathology IV: Disorders of Language (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 456.

An analysis of the components of language and how each is involved with language disorders in children. Provide for the understanding and recognition of variables for the assessment and clinical management of such children.

Letter grade only (A-F).

### **481B. Speech Pathology IV: Disorders of Language Neuropathologies (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 483.

Neurophysiological and neurolinguistic basis for language and speech disorders associated with central nervous system pathologies. Provides for the recognition and understanding of variables for the assessment and clinical management of such disorders.

Letter grade only (A-F).



**483. Assessment of Monolingual and Bilingual Clients (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 330, CD 460.

Principles underlying assessment procedures in speech language disorders for both monolingual and bilingual clients. Focus is on the cultural and linguistic variables affecting standardized and non-standardized assessment procedures.

Letter grade only (A-F). (Discussion 2 hours, laboratory 3 hours)

**485. Introduction to Autism Spectrum Disorders for Speech-Language Pathologists (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 464, CD 483.

Foundational areas prerequisite to understanding ASD including historical perspectives, diagnostic systems, theorized etiologies, and behavioral characteristics are differentiated. Components of early identification, social pragmatics of language acquisition, social-communication across age levels, and evidence-based assessment and interventions are examined.

Letter grade only (A-F).

**489. Clinical Observations and Professional Writing for Prospective Speech-Language Pathologists (3)**

Prerequisites: CD 261, CD 271, CD 329, CD 456, CD 466, CD 476, CD 483.

The course provides entry-level knowledge in professional writing for prospective speech-language pathologists. Students develop preliminary clinical skills on generating goals and objectives, report writing and documentation. Students also fulfill the ASHA requirements for 25 clinical observation hours.

Letter grade only (A-F). (Discussion 2 hours, laboratory 3 hours)

**491. Proctoring in Communicative Disorders (2-3)**

Students shall engage in peer teaching and examination scoring in undergraduate courses under the specific direction of the course instructor.

Open only to students who have achieved the grade of "A" in the course in which they are serving as proctor. May be repeated to a maximum of 6 units.

**499. Directed Studies in Communicative Disorders (1-3)**

Prerequisite: Consent of instructor.

Independent study under supervision of a faculty member.

May be repeated to a maximum of 6 units. Not acceptable for graduate credit toward the master's degree.

**GRADUATE LEVEL**

**575. Educational Topics in Speech-Language Pathology (2)**

Review current issues, legislation and the role of SLPs in public school settings, including service delivery, school reform, accountability, and eligibility criteria. Special consideration given to collaboration and the use of content standards in goal setting and curriculum intervention.

Letter grade only (A-F).

**590. Selected Topics in Communicative Disorders (1-3)**

Topics from the most recent developments and issues in speech-language pathology and audiology.

May be repeated to maximum of 6 units with different topics. Topics announced in the *Schedule of Classes*.

**661. Traumatic Brain Injury Across the Lifespan (3)**

Prerequisite: C D 696.

Neurophysiological basis for cognitive and communicative impairments associated with traumatic brain injury (TBI). Addresses rehabilitation research specific to TBI in children and adults.

Letter grade only (A-F).

**662. Seminar in School-Age Language Disorders: Grade 1 through High School (3)**

Prerequisites: CD 456, CD 481A and CD 696.

Components of spoken and written communication and language are examined in children and adolescents with diverse, academically-based language learning disabilities. Major approaches to literacy and curricular-based intervention explored.

Letter grade only (A-F).

**663. Seminar in Preschool Language Disorders: 0-5 Years (3)**

Prerequisites: CD 456 and CD 481A.

Corequisite: CD 696.

Components of communication, language, speech and pre- and emergent literacy are examined in preschool children with diverse problems across all aspects of language learning. Evidence-based techniques and approaches to language intervention are explored.

Letter grade only (A-F).

**665. Seminar in Language Disorders in Adults (3)**

Prerequisites: C D 481B, CD 696.

Provides an understanding of neuropathological substrates of language disorders in adults resulting from brain damage. Provides for the recognition and assessment of the syndromology and clinical aspects of adult language disorders relative to current research.

Letter grade only (A-F).

**666. Seminar in Motor Speech Disorders and Fluency Disorders (3)**

Prerequisites: C D 466, CD 696.

Discuss etiology, associated speech characteristics, assessment, and management of motor speech disorders, including apraxia of speech and dysarthria, and fluency disorders. Emphasis on differential diagnosis, clinical decision making process and application of evidence-based treatment.

Letter grade only (A-F).

**667. Seminar in Autism Spectrum Disorders (3)**

Prerequisite: CD 696.

Historical perspectives, assessment procedures, intervention approaches, and parent training programs for management of clients diagnosed with Autism Spectrum Disorders.

Letter grade only (A-F).

**668. Seminar in Dysphagia (2)**

Prerequisite(s): CD 477, CD 696

This course is designed to enhance the knowledge of swallowing disorders in all age groups that result from a variety of medical conditions. Students will learn the techniques for assessing swallowing function and rehabilitation treatment approaches for dysphagia.

Letter grade only (A-F).

**669A. Clinical Practice – Child-Adolescent Speech and Language Clinic (2)**

Prerequisites: C D 489.

Prerequisite/Corequisites: C D 663 and consent of instructor.

CD 669A is designed to bridge the gap between theory and practice through hands-on experience. Under supervision, students will conduct standardized and informal assessment, generate goals and objectives, develop and implement treatment plan, and write professional assessment and progress reports. Student conducts assessment of phonological disorders and

Letter grade only (A-F). Course fee may be required.

**669B. Clinical Practice – Autism Spectrum Disorders (2)**

Prerequisite: C D 667.

Provides students with the opportunity to gain hands-on experience in assessing and managing clients diagnosed with Autism Spectrum Disorders. Letter grade only (A-F).

(2 hrs lecture, 2 hrs clinic) Course fee may be required.

**669D. Clinical Practice with Voice and Oro-facial Mechanism Disorders (2)**

Prerequisites: C D 489. Consent of instructor.

Student conducts therapy sessions under supervision for persons with functional and/or organic voice disorders. Practicum includes initial interviews, diagnostics, therapy program planning, counseling and report writing.

Letter grade only (A-F). Course fee may be required.

**669H. Clinical Practice-Special Programs (2)**

Prerequisites: At least one of the C D 669A through J courses.

Specialized practice placement to obtain experience with speech, language, and hearing disorders.

May be repeated to a maximum of 4 units. Letter grade only (A-F). Course fee may be required.

**669J. Clinical Practice - Adult Speech and Language Clinic (2)**

Prerequisites: C D 489.

Prerequisite/Corequisites: C D 665 and consent of instructor.

CD 669J is for students to gain hands-on experience while working with individuals with acquired speech-language and/or cognitive-communication disorders resulting from various neurogenic disorders. Practicum includes assessment, treatment planning, report writing, and application of research findings to clinical process.

Letter grade only (A-F). Course fee may be required.

**669L. Clinical Practice with Culturally and Linguistically Diverse Clients (2)**

Prerequisites:

- 1) Completion of all disorder-specific graduate seminars;
- 2) completion of a minimum of 3 core clinics (C D 669 A-J);
- 3) C D 483 and CD 489, or equivalent as approved by the instructor) and consent of instructor.

Assessment/management of speech-language disorders in clients whose native language is different than that of the clinician. Training of bilingual interpreters.

Minimum 25 clock hours required. Letter grade only (A-F). Course fee may be required.

**670. Medical Internship in Speech and Language Pathology (5)**

Prerequisites: Complete with a grade of "B" or higher all graduate seminars for the Master's degree in CD and all graduate clinics applicable to specific field placement (as determined by Instructor), and Department consent.)

Advanced clinical supervised practice with speech and language disordered persons in either a hospital, rehabilitation agency or speech and language center.

Letter grade only (A-F). Course fee may be required.

**680. Internship in Audiology (5)**

Prerequisites: C D 669A or CD 669B or CD 669C or consent of the instructor.

Advanced clinical practice in audiology with hearing impaired persons in a community facility.

Letter grade only (A-F). Course fee may be required.

**686A. Public School Practicum in Speech-Language Pathology (5)**

Prerequisites: Pass the CBEST, complete with a grade of "B" or higher all graduate seminars and all but one graduate clinic required for the Master's degree in CD, and department consent

Speech-Language Pathology Services Credential (SLPSC) candidates participate in supervised clinical practicum in an off-campus itinerant speech and language setting(s) for the equivalent of one semester earning 5 units of field study. (Required only for SLPSC credential.)

Enrollment by application to the Communicative Disorders Department only. Credit/No Credit grading only. Course fee may be required. (Fieldwork)

**695. Directed Readings (1-3)**

Prerequisite: Consent of instructor.

Readings in communication sciences/disorders.

Required of all candidates for the master's degree not electing the thesis option. Under special circumstances, may be repeated to a maximum of 6 units. Letter grade only (A-F).

**696. Research Methods: Applied and Basic (3)**

Prerequisite: PSY 110 or equivalent or consent of instructor.

Professional issues related to research and clinical settings. Application of scientific method, experimental design (group and single subject) and related statistical methods (parametric and non-parametric). Evaluate literature in the field.

(Lecture 3 hours.) Letter grade only (A-F).

**697. Directed Research (1-3)**

Prerequisite/Corequisites: C D 696 and consent of instructor.

Independent research under supervision of a faculty member.

Letter grade only (A-F).

**698. Thesis (1-4)**

Prerequisites: Advancement to candidacy for master's degree.

Preparation, completion and submission of an acceptable thesis in partial fulfillment of the requirements for the master's degree.