



LOMA LINDA
UNIVERSITY

Transitional Master of Science Curriculum Communication Sciences & Disorders

Normal time to complete the program is 3 years (11 academic quarters). Full-time enrollment is required. All students in a cohort matriculate through all courses in a block, meaning everyone is registered for the same courses each quarter (there are a few course exceptions).

TRANSITIONAL COURSEWORK (1 YEAR):

CMSD 514 Anatomy of Speech-Hearing Mechanism (4 units). Addresses anatomy and physiology of basic human auditory-vocal communicative processes. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 515 Transcription Phonetics (3 units). Student develops transcription skills using the International Phonetic Alphabet. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 516 Speech & Hearing Science (3 units). Introduces and explores basic theories in acoustics, psychoacoustics, and speech perception and production. Includes basic physics and algebra, as well as the application of scientific principles to clinical practice.

CMSD 520 Communication across the Lifespan (4 units). Overview of language development and normal changes over the lifespan. Development of language from infancy to adolescence, and the effects of aging on communication. Includes study of hearing. Includes monthly meetings to discuss clinical applications.

CMSD 521 Language Disorders of Children (4 units). Addresses impairments of language development in children, formal and informal assessment of children, and programming and planning of remediation procedures. Students meet monthly to discuss application to clinical populations. Prerequisite or concurrent: CMSD 520.

CMSD 522 Organic Speech Disorders (4 units). Introduces the classification, cause, manifestations, assessment, and treatment of craniofacial disorders/cleft palate, tongue thrust, dysarthria, apraxia of speech, and dysphagia. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 529 Adult Language Pathology (4 units). Addresses impairment of language and speech related to organic neuropathology. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 533 Language Science (4 units). Introduces techniques of linguistic analysis used in the study of phonology, morphology, syntax, and semantics. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 534 Speech Sound Disorders in Children (4 units). Addresses definition, etiology, characteristics, prevention, assessment, and intervention for phonological/articulation disorders. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 537 Clinical Methods in Speech-Language Pathology (4 units). Addresses principles and procedures of speech and language therapy within and across disciplines. Addresses methods of determining treatment effectiveness. Discusses regulations governing public school services. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 538 Diagnostic Methods in Speech-Language Pathology (4 units). Discusses purpose of assessment, including procedures employed in describing and diagnosing speech and language impairments. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 539 Introduction to Audiology (4 units). Provides anatomy and physiology of the auditory mechanism. Addresses the nature of acoustic stimulus, disorders of the ear, and problems of the hard-of-hearing. Covers pure-tone audiometry. Applicable for California audiometric certification. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

CMSD 577 Bilingualism and Biculturalism (2 units). Addresses the clinical competencies and cultural sensitivity needed for dealing with bicultural and bilingual clients. Discusses the impact of such knowledge on assessment and intervention. In addition to scheduled classes, students are required to meet monthly to discuss application to clinical populations.

GRADUATE COURSEWORK (2 YEARS):

CMSD 511 Graduate Portfolio I (2 units). The first in a series of two courses that provides students with a format for demonstrating their acquisition of the knowledge and skills that prepare them for entry into the profession. Students learn the requirements for professional accreditation and certification, and of licensing entities; and develop a professional portfolio. Emphasizes ethical, business, and legislative considerations in speech-language pathology.

CMSD 512 Graduate Portfolio II (1 unit). The second in a series of two courses that teaches students the requirements for professional accreditation and certification, and of licensing entities; and that helps them continue to develop an organized means of demonstrating the knowledge and skills acquired during their graduate program. Requires development of a professional portfolio.

CMSD 523 Seminar in Early Childhood Language Disorders (3 units). Addresses the principles and procedures in assessment and interventions of language disorders in children. Emphasizes early language learners (birth to 3 years).

CMSD 525 Seminar in School-Aged Child Language Disorders (3 units). Addresses the principles and procedures of assessment and intervention of preschool, primary, and adolescent school-age children with language disorders. Emphasizes school-age learning in the areas of semantics, syntax, pragmatics, narrative, and phonological awareness.

CMSD 535 Voice Disorders (3 units). Discusses diagnosis and intervention techniques used with children and adults displaying a variety of voice disorders. Includes demonstration and operation of instrumentation used for physiological and acoustic analysis of abnormal voice production.

CMSD 545 Issues in School Speech-Language Pathology (3 units). Addresses issues confronted by school speech-language pathologists, including PL 94-142, IDEA, NCLB, planning for and conducting IEPs, scheduling, and caseload management, evaluating and assessing students from diverse backgrounds, due process, and advocating for students.

CMSD 554 Swallowing Disorders (3 units). Lecture and discussion of the speech-language pathologist's role in the diagnosis and treatment of swallowing disorders in children and adults. Addresses ethical and cultural issues. Emphasizes analysis of current literature and clinical applications. Selected laboratory experiences.

CMSD 564 Seminar: Aural Rehabilitation and Cochlear Implants/Hearing Aids (3 units). Studies the mechanisms for achieving hearing rehabilitation; including amplification, speech reading, auditory training, hearing-aid orientation, and speech conservation. Considers hearing-aid function and philosophies of rehabilitation for the hearing impaired (e.g., auditory, aural, manual, and total communication).

CMSD 567 Clinical Practice in Speech-Language Pathology and Audiology, Advanced (1-6 units). Supervised practice in diagnosis and therapy. Students register for this clinic to participate in several specialty clinics offered in the program including but not limited to autism, voice disorders, aural habilitation, fluency, speech sound disorders, and accent modification.

CMSD 575 Instrumentation in Speech and Hearing (1 unit). Lecture, discussion, and laboratory experience in the areas of speech acoustics, speech production and perception, psychoacoustics, and speech and hearing physiology.

CMSD 576 Instrumentation II (1 unit). Guides students through practical application of theoretical information acquired in CMSD 575 regarding speech instrumentation. Individually paced, with guided assistance, so that student can complete competency on selected speech instrumentation.

CMSD 586 Educational Fieldwork I (1 unit). Initial supervised therapy on the elementary and/or secondary level and/ or in a classroom for the severely language-handicapped child.

CMSD 587 Counseling in Communication Disorders (3 units). Explores the counseling role of the speech-language pathologist and identifies clinician responsibilities in working with individuals of different cultures, ethnicity, gender, age, and belief systems.

CMSD 588 Educational Fieldwork II (8 units). Full-time supervised therapy on the elementary and/or secondary level and/or in a classroom for the severely language-handicapped child (taken during 2nd year).

CMSD 596 Medical Fieldwork I (1 units). Initial supervised clinical practice in a medical center, rehabilitation facility, or skilled nursing facility (taken during 1st year).

CMSD 597 Medical Fieldwork II (8 units). Full-time supervised clinical practice in a medical center, rehabilitation facility, or skilled nursing facility (taken during 2nd year).

CMSD 598 Research Methods & Professional Literature in CSD (3 units). Lecture and discussion that facilitates the student's ability to read and interpret professional literature, develop research ideas, and develop professional writing skills.

CMSD 679 Seminar: Motor Speech Disorders/Augmentative Communication (3 units). Problem-based learning seminar that focuses on etiology, characteristics, evaluation, and treatment of motor speech disorders, including the dysarthrias and apraxia.

CMSD 682 Seminar: Traumatic Brain Injury (3 units). Explores pathophysiology, diagnosis, and rehabilitation of cognitive communication disorders in children and adults with traumatic closed head injuries. Lecture and discussion format emphasizes reading current professional literature and developing skills in formal and informal assessment and functional treatment.

CMSD 684 Seminar: Adult Language Disorders (3 units). Problem-based learning seminar that focuses on etiology, characteristics, evaluation, and treatment of acquired adult language disorders.

CMSD 685 Seminar: Stuttering (3 units). Provides practical instruction in assessment and remediation with individuals who stutter and/or clutter.

CMSD 687A Seminar: Open Seminar (2 units). This is a one-unit course which students register for twice (seminars on different topics each time). This seminar facilitates students' advanced study of current issues in the diagnosis and treatment of communication disorders. Examples of typical topics include pediatric swallowing, right hemisphere, augmentative alternative communication

CMSD 687B Seminar: Open Seminar (2 units). This is a one-unit course which students register for twice (seminars on different topics each time). This seminar facilitates students' advanced study of current issues in the diagnosis and treatment of communication disorders. Examples of typical topics include trachs and vents and cleft palate.




CMSD 688 Seminar: Speech Sound Disorders - Advanced (3 units). Typical development of phoneme acquisition and use. Explores etiology, characteristics, assessment and treatment of articulation and phonological disorders and differences in children.

CMSD 697 Research (1 unit). Students register for this course when they are completing their research projects, following the proposal process and data collection. Upon registering for this course students will write results and discussion and prepare for oral presentation at Research Symposium.

Religion course (Ethics) (3 units). Students are required to take one ethics course offered through the Department of Religion. The course varies each year and is selected for the entire cohort by the graduate program director.

Total Units: 121

Also required is successful completion of:

-  *Research Symposium Presentation*
-  *Comprehensive Written Capstone Project*
-  *Oral Capstone Presentation*